

SONY





Tomorrow's lenses today, from Sony

Lens standards are changing. Advances in camera performance and soaring creative ideals demand a new approach to lens technology.

Sony now redefines the lens, with a clear vision of the future. The G Master revolution begins with three large-aperture lenses that achieve a supreme blend of high resolution and beautiful bokeh thanks to new XA (Xtreme Aspherical) lens elements with increased surface precision.

With these new additions, there are now 20 full-frame e-mount lenses available, giving you all the tools you need to capture the ultimate shot.



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A week in photography



One of the earliest lessons you learn in photography is 'spend it on the glass,' since using a good camera with a cheap lens is like buying a sports car and

never getting out of second gear. While it's true that the finest lenses have a price tag to match, you can find bargains if you shop around. Turn to pages 49-53 to discover the best lenses for a range of mounts under £200 - I defy you not to be tempted! We also help

Amateur amateurphotographer. **Photographer** co.uk

you to get more from your existing lenses, with guides to fine-tuning autofocus and mastering manual focus.

With 2016 being a Photokina year – yes, we'll be there! - some exciting new cameras are in the pipeline. The latest is the Canon EOS M5. Canon has, up to now, had little presence in the growing mirrorless market, but that may now be set to change. Read Andy Westlake's early impressions on pages 8-9.

Nigel Atherton, Editor

Facebook.com/Amateur.

photographer.magazine

flickr.com/groups/ flickr.com/groups, amateurphotographer





ONLINE PICTURE OF THE WEEK



Ghost of the Fairy Pool

by Grant Glendinning

Canon EOS 5DS R, 16-35mm, 133secs at f/11, ISO 50, ND filter, polarising filter

This image was uploaded to our website gallery. 'When I arrived at the Fairy Pools in the Isle of Skye, it was quite cloudy so I took a few landscape-oriented shots to minimise a featureless sky,' says Grant. 'After a short while, the clouds broke with sunshine and blue sky appearing intermittently. I decided to shoot a very long exposure to capture some of the nice light and colour coming through, and shoot in portrait. The result was this image with some cloud movement and what looked to me like a face in the sky."



Each week we choose our favourite picture on Facebook, Flickr, Twitter, Instagram or the reader gallery using #appicoftheweek. PermaJet proudly supports the online picture of the week winner, who will receive a top-quality print of their image on the finest PermaJet paper. It is important to bring images to life outside the digital sphere, so we encourage everyone to get printing today! Visit www.permajet.com to learn more.

Send us your pictures If you'd like to see your work published in *Amateur Photographer*, here's how to send us your images: Email Email a selection of low-res images (up to 5MB of attachments in total) to appicturedesk@timeinc.com.

CD/DVD Send us a disc of high-resolution JPEG, TIFF or PSD images (at least 2480 pixels along its longest length), with a contact sheet, to the address on page 19. Via our online communities Post your pictures into our Flickr group, Facebook page, Twitter feed, or the gallery on our website. See details above.

Transparencies/prints Well-packaged prints or slides (without glass mounts) should be sent by Special Delivery, with a return SAE, to the address on page 19.



NEWS ROUND-UP

The week in brief, edited by Chris Cheesman

Laowa moves 12mm f2/8 launch

Chinese lens maker Laowa has moved the launch of its new 12mm f/2.8 lens to November. Originally due out in August, the 12mm f/2.8 Zero D wideangle lens, for full-frame cameras, features 16 elements in 10 groups, with three extra-low-dispersion elements. It is due to cost £899.99.



Canon develops new sensor

Canon has developed a new CMOS imaging sensor that it says makes it possible to achieve a wider dynamic range and shoot better images of moving subjects. The sensor deploys a new signal-readout drive system to expand dynamic range, while a new pixel structure aims to reduce noise.

60mm lens for Leica T

Leica is set to release a 60mm prime lens for the Leica T compact system camera. The Leica APO-Macro-Elmarit-TL 60mm f/2.8 Asph bolsters the T-system lens portfolio to six models, comprising three zooms and three primes. The new lens is designed to deliver the 35mm viewing angle equivalent of a 90mm lens and will go on sale in mid-September, priced £1,800.





Amazing insects winner

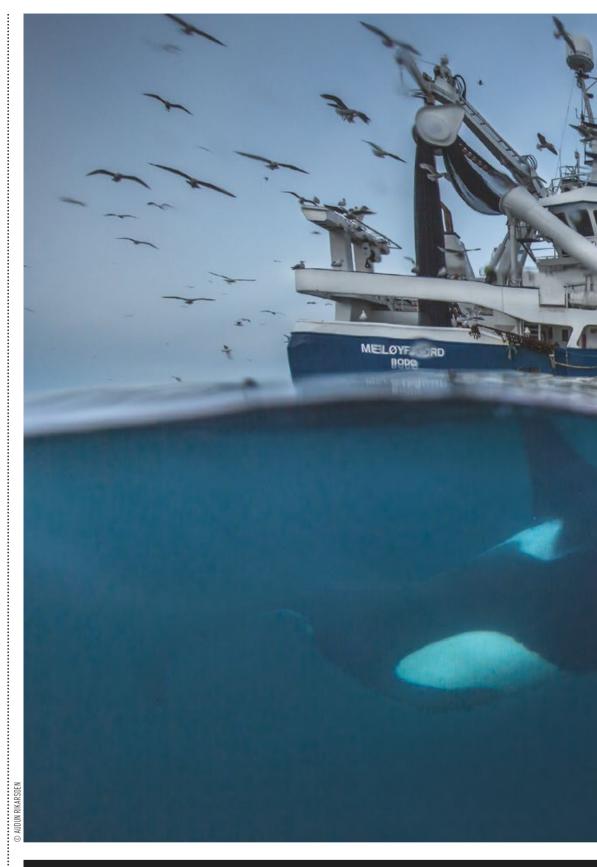
A photographer based in Argentina has won the Amazing Insects Photography Competition, beating more than 125 entries. Mario Gustavo Fiorucci won a year's membership to The Society of International Nature and Wildlife Photographers, the body that organised the competition.

Simply Electronics halts sales

Simply Electronics, a Hong Kong-based company that sold camera gear to UK photographers, has halted sales. A message posted on the firm's website states: 'We regret to inform you that we are no longer processing orders. If you have any transactional enquiries or an

existing order that has not been delivered, please contact your card issuer to file for a chargeback.' The firm was not available for comment.





WEEKEND PROJECT

Spell it out

Every time we walk down the street we are surrounded by typography, from road signs and shop fronts to advertising and car number plates. Unless it's relevant to us we usually ignore this visual language. However, if we head out with the intention of photographing what we see we tend to walk more slowly, and take the time to notice the size, colour and shape of each letter and word, rather than becoming fixated on what is says or means. Certain typefaces, for example, give clues to the age and even the purpose of a building. Certain colours (such as red) tell us how important a piece of information is to us. You don't need to travel far to embark on a typography treasure hunt, just step out of the door and enjoy reading the urban landscape.

Many people have drawn inspiration from the typography of the urban landscape. Walker Evans created some wonderful shots of streets, cafés, signs and billboards. Spend an afternoon studying his work.

Look for amusing juxtapositions between words on the street and those walking past them – a dog in a pushchair being wheeled past a Walk4Life poster, or a guy sitting in front of some interesting graffiti.





BIG

Wildlife Photographer of the Year 2016 reveals first images

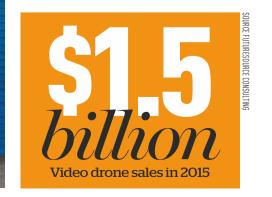
Along with the British Wildlife Photography Awards, the Wildlife Photographer of the Year competition is the most anticipated nature competition in the UK. Every year the competition showcases the world's best nature images. Droves of people flood to see the exhibition at London's Natural History Museum, and you'll get your chance when it opens this year on 21 October. This year's competition received 50,000 entries from 95 countries and we'll soon know which 100 are to receive recognition. In the meantime, we make do with a sneak-peak at one of the images. This split-level shot, taken in Norway by Audun Rikarsden, shows a killer whale and a flurry of gulls enjoying the spoils of a trawler. For more information, visit www.nhm.ac.uk/visit/wpy.html.

Words & numbers

You don't study photography, you just do it

Elliott Erwitt

American documentary photographer, b1928



Shooting typography requires awareness of what's going on at the edges of the frame. Once you've lined up your shot, scan the edges of the viewfinder to make sure that you are not cutting off any words or letters in half.

.....

Create your own alphabet by isolating letters and forming a montage in post-production. Then try making a new alphabet out of objects that have the appearance of letters, such as pipes that form an 'L' shape.







iPhone 7 Plus to feature dual-camera system

eARLIER this month Apple officially announced its latest iPhone releases: the iPhone 7 and 7 Plus. Labelled a 'huge advancement for mobile phone photography' by Apple, both models will feature upgraded camera systems with a number of enhanced features. However, the muchrumoured dual-lens system will be restricted to the more expensive and larger Plus model.

Besides optical image stabilisation, which was only seen in the 6/6s Plus series, both the iPhone 7 and 7 plus



The shallow depth of field mode in action

feature a wider f/1.8 aperture, 3x longer exposure, an improved 12MP image sensor, a flicker sensor to combat harsh artificial light, and a new and improved image signal processor (ISP) – responsible for



autofocus, white balance and face/body detection in real time. It is also capable of capturing impressively rich colour, which Apple has termed Wide Colour. The front-facing FaceTime camera has also been given a boost, up from 5MP to 7MP HD capture, again with Wide Colour and auto-stabilisation.

Exclusive to the 7 Plus is the dual-camera system: two 12MP sensors – one a 28mm equivalent wideangle lens (as would be standard on an iPhone) and the other, a 60mm telephoto lens. Used together, these amount to a 10x zoom – optically up to 2x, and then using software for up to 10x. Users can either toggle zoom or drag to create bespoke settings.

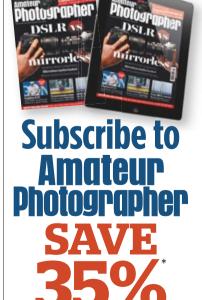
The dual cameras allow another feature that is fairly new to smartphone photography – a shallow depth of field mode. By accessing the portrait mode, the ISP uses the new telephoto lens and face/body recognition to keep the foreground in focus, while generating a bokeh effect in the background. This new function will be rolled out later in the year in a free update, although whether it will be able to match a more advanced camera with a large aperture lens remains to be seen.

The iPhone 7 and 7 Plus are due to be released on 16 September.



SLPOTY: Correction

IN AP 10 September's Scottish Landscape Photographer of the Year (SLPOTY) article, we incorrectly attributed an image to the overall winner lan Cameron. The main image across pages 22-23 should have been credited to Scott Robertson, and actually shows Buachaille Etive Mor in Glen Etive in the Scottish Highlands. As a result, we failed to show Ian Cameron's image 'Awakening Ben Loyal' (above), which was one of three images that took the SLPOTY overall prize. In addition, Ian Cameron's image 'Caramel Ice' was also not featured correctly. This is an error that was immediately brought to our attention by vigilant readers and is deeply regrettable. With the generous cooperation of the affected photographers, the correct images and information will feature as part of our Photo Insight series in upcoming issues of AP.



Visit amateurphotographer subs.co.uk/15W (or see p44) * when you pay by UK Direct Debit



Master of Photography winner unveiled

SKY Arts Master of Photography, the first-ever televised talent contest for photography, concluded on 8 September. Gabriele Micalizzi was the show's winner, and was awarded €150,000. Over the previous eight weeks, 12 amateur and professional photographers from different photographic disciplines travelled across Europe and tackled a series of challenges that tested their ability, skill and instinct across various styles.

Season one's winner Gabriele Micalizzi is a former football player and professional tattoo artist from Milan, Italy, but he has been a professional

photojournalist for over ten years. Social matters and political issues are at the core of his work, and he is passionate about capturing the feelings of people out of the spotlight of mainstream media.

A call for entries to the second season of Master



Another image by Micalizzi

of Photography opened online on 14 September and will close on 31 October 2016. Open to both amateurs and professionals across Europe, the chosen contestants will compete for a €150,000 prize. Terms and conditions will be posted on www. masterofphotography.tv.

Phil Edgar-Jones, director of Sky Arts, said: 'As we hoped, the programme was a demonstration of just how powerful and important photography remains, and we brought some extraordinary undiscovered talent to light in the process. We look forward to seeing whom we might uncover in 2017."

Get up & go

The most interesting things to see, to do and to shoot this week. By Oliver Atwell



African Style
October Gallery will display photographic works by pioneering Ghanaian photographer James Barnor and Italian photographer Daniele Tamagni. The show will feature Barnor's photographs of London's multicultural metropolis in the 'swinging '60s' and Ghana in the 1950s, along with Tamagni's works of contemporary Africa. Until 30 September, www.octobergallery.co.uk



First World War

Through photographs, oral histories and case studies, this exhibition, supported by Armed Forces Covenant. explores the many charity organisations established at the time of the First World War. The show will be held at Liverpool Museum.

Until early 2017, bit.ly/2cqgzTt



Nigel Hicks: Exmoor Nigel Hicks is offering a

one-day course exploring the virtues of photographing the autumn season. You'll gain experience in coastal, moorland and woodland photography in an area where Exmoor meets the sea. A booking costs £85. 8 October, www.nigelhicks. com/80ct2016course.html



Black Chronicles

Black Chronicles showcases over 40 photographs presenting a unique snapshot of black lives and experiences in 19th and early 20th century Britain. The portraits of individuals of African and Asian heritage are an insight into Britain's imperial history.

Until 11 December, www.npg.org.uk/ whatson/blackchronicles

TPOTY 2016 final call for entries

THE CALL for entries for the 2016 international Travel Photographer of the Year (TPOTY) awards will close on 1 October. The competition features three portfolio categories, three 'One Shot' single-image categories, a 'Smart Shot' category for images taken on a mobile phone or tablet, Young TPOTY, a 'New Talent' award and an HD video category. The competition receives entries from over 110 countries. To enter and for more information, visit tpoty.com.



Jasper Doest's image was joint winner of the Wild Stories category in the 2013 event

For the latest news visit www.amateurphotographer.co.uk

British Wildlife Photography Awards If you were unable to catch the London

exhibition featuring this year's winners of the British Wildlife Photography Awards, then you're in luck. The show is now touring and currently at Astley Hall in Lancashire. George Stoyle was this year's winner with his shot of a lion's-mane jellyfish (right).



Until 5 November, www.bwpawards.org



Canon EOS M5

With the launch of its latest model, the **EOS M5**, Canon finally seems to be getting serious about mirrorless cameras.

Andy Westlake takes a first look

Built-in flash There's a small pop-up flash unit in the viewfinder housing, as well as a hotshoe for attaching EX-series flashquns.

Tilting touchscreen

The LCD tilts upwards by 85° and downwards by 180° to face forwards underneath the camera's body.



Microphone input A 3.5mm stereo microphone

socket is included alongside USB, HDMI and an E3-type cable-release socket.

The M5 promises 295 shots per charge from its LP-E17 battery, or 420 in its power-saving ECO mode.

ALTHOUGH Canon launched its first mirrorless camera, the EOS M, back in 2012, the company has never seemed to take the idea quite seriously, with only six EF-M lenses for the system appearing to date. However, with the EOS M5, Canon has finally made a camera to turn enthusiast photographers' heads.

wws54

In essence, the EOS M5 is a DSLR-like model with a centrally mounted electronic viewfinder and tilting rear touchscreen – a design blueprint that has proved popular ever since the appearance of the original Olympus OM-D E-M5. Yet Canon has managed to cover the M5's petite body with a well-thought-out array of buttons and dials that promise to make it one of the nicest-to-use small CSCs we've yet seen. The addition of Dual Pixel CMOS AF means that it feels genuinely quick, too.

The EOS M5 is due to go on sale at the end of November, with a price of £1,049 body only, or £1,149 with the compact EF-M 15-45mm f/3.5-6.3 IS STM zoom. In mid-December a kit

with the new EF-M 18-150mm f/3.5-6.3 IS STM lens (see opposite) will be available, for £1,399. All will

come with an adapter for Canon's EF and EF-S DSLR lenses in the box.

Features

Canon says the 24.2-million-pixel sensor is closely related to that found in the EOS 80D. Together with the latest DIGIC 7 processor, it gives a

Above: Despite the camera's small size, **Canon has provided** a decent amount of space for your thumb to grip



At a glance

- 24.2-million-pixel APS-C sensor
- Dual Pixel CMOS AF
- 2.36-million-dot EVF
- £1,049 body only, £1,149 with 15-45mm lens, £1,399 with 18-150mm lens

Bluetooth connectivity

For the first time on a Canon camera, the M5 adds low-energy Bluetooth 4.1 connectivity alongside Wi-Fi and Dynamic NFC. The idea is that this can maintain a permanent connection to a smartphone, allowing it to be used as a remote shutter release without a huge impact on battery life. It can also be used to turn on the camera's Wi-Fi, either for copying images across for sharing or remote control with a live-view feed.



Canon's EOS M5 is small but handles well

sensitivity range of ISO 100–25,600. The EOS M5 can shoot at seven frames per second with AF between shots, or nine frames per second with focus fixed, with a 26–frame JPEG buffer.

For viewing, the 2.36-million dot OLED EVF has a magnification of around 0.62x, comparable to cameras like the Fujifilm X-T10 and Olympus OM-D E-M10 Mark II. It's joined by a 1.62-million-dot LCD that tilts upwards for use as a waist-level finder or downwards for overhead shots. It can even be set to face forwards beneath the camera for selfies.

The screen is touch–sensitive, and thanks to Canon's excellent interface it complements the physical controls very well. Not only can it be used to change almost any setting, but it's also available for selecting the autofocus point, even when using the electronic viewfinder. Canon allows you to choose the area of the screen you wish to use for this, either the whole screen, left or right halves, or any of the four quarters.

Video recording is available in full–HD resolution at up to 60fps, with a built-in 3.5mm stereo socket for adding an external microphone. There's 5-axis electronic image stabilisation on board, and while it's unlikely to be as effective as the in-body systems found in some rival cameras, it means footage will be



The touchscreen is quick and responsive

stabilised even when using non-IS lenses, and can be combined with optical stabilisation when using compatible EF-M or EF-S lenses. It's also possible to pull focus from one subject to another simply by tapping the touchscreen.

Build and handling

The EOS M5's polycarbonate body feels sturdy in your hand, aided by a nicely sculpted rubber-coated grip. Indeed, it handles remarkably well for a small camera that's just 115.6x89.2x60.6mm in size and weighs 427g. The impression of quality is maintained by the attractive gun-metal finish and beautifully knurled metal dials. Canon says these have been designed to be easy to use but difficult to knock accidentally, and it appears to have achieved these aims.

Alongside an exposure-compensation dial and electronic dial around the shutter release, Canon has added an additional thumb dial on the top-plate. Pressing the Dial Func button in its centre cycles through various functions depending on the exposure mode, including ISO, white balance and drive mode. At first sight, this looks like it should be a really nice way of putting lots of control at your fingertips. Add in the comprehensive on-screen control panel and even touchscreen sceptics should rarely have to dip into the menus.

First impressions

With the EOS M5, it seems Canon may just have made the mirrorless model that everyone has been asking for. It certainly has a lot of potential for persuading Canon's dyed-in-the-wool DSLR users to try out the technology for the first time, especially with the EF lens adapter included to ease the transition. The stumbling block, however, could be the price: at £1,049, the EOS M5 is pitched at around the same level as the Sony Alpha 6300, which includes 4K video recording, weatherproof build and a hugely capable autofocus. Nonetheless, we're excited to see Canon finally making a genuinely enthusiast-oriented mirrorless model.

Canon reveals EF-M superzoom and EOS M5 accessories

ALONGSIDE the EOS M5, Canon has revealed the EF-M 18-150mm f/3.5-6.3 IS STM lens. With an 8.3x range equivalent to 29-240mm on full frame, the lens includes optical image stabilisation with a claimed 4-stop benefit for low-light handheld shooting and full compatibility with the EOS M5's 5-axis electronic IS. A stepper motor promises fast, silent autofocus, and

there's a seven-bladed circular aperture s. With ent to ame, cal h a fit for cooting

The EOS M5 with 18-150mm lens, body jacket and matching leather strap

designed to give smooth out-of-focus blur. Weighing just 300g, the lens is due in mid-December for £429.

Canon has also revealed some more accessories for the EOS M5, although details are scarce. The EH29-CJ body jacket is a leather half-case in black or brown, and there's a matching EM-300DB premium neckstrap too.

Sony introduces 18-110mm f/4 lens

.....



Sony's E PZ 18-110mm f/4 G OSS is designed for video

SONY has announced a new video-optimised 18–110mm Super 35mm/APS-C lens for Sony A-mount cameras such as the Alpha 6300 and Alpha 7 series. With a 27–165mm equivalent range, the Sony E PZ 18–110mm f/4 G OSS is similar to the existing full-frame FE PZ 28–135mm f/4 G OSS, but redesigned for the smaller sensor format.

The lens will feature a 6.1x zoom ratio, constant f/4 aperture, Sony's Smooth Motion Optics design, in-lens stabilisation, and a dust and moisture-resistant build. With 18 elements in 15 groups, including six aspherical elements and three ED (Extra-low Dispersion) glass elements, the lens includes a seven-blade circular aperture design.

The 18-110mm is due to be released in December in Europe, retailing at approximately €4,000.





harging: this is the perennial bugbear of both the travel photographer and any photographer not tethered in the studio. My current Nikon D700 has an EN-EL3e battery, which is rated at 1410mAh. According to Nikon, it should give 1,000 shots. Compare this to my Fujifilm X-M1, which has the NP-W126 rated at 1,260mAh, and which should give 300 images. Similar capacities, but as the AP 3 September issue on 'DSLR vs mirrorless' showed, they have different levels of power consumption. If I go out with my Nikon, I have no worries for the day and I'm often good for the week. The same can't be said for my Fuji camera, and I always make sure I pack a spare battery. It really is worth the premium for own-brand or quality-branded batteries; they are reliable and long lasting.

But when the juice finally runs dry and you get the red flashing light in the viewfinder (or on the rear LCD in the case of my X-M1), what do you do? Or throw into the mix that you have flown for a weekend of city shooting to mainland Europe, opted for cabin baggage and you have a European electrical system to negotiate.

For any travelling I do, I only take cabin baggage, which means I'm secure in the knowledge that my camera gear is safely stowed, and boarding and landing are rapid. Consequently, though, it means I



Instead of buying a costly all-in-one travel charger, Mike has opted for a less bulky multi-travel adapter for his chargers

have to pack as light as possible. Charging has therefore become a key area for optimisation as I have a phone, tablet, power brick (well, 'stick'), card reader and Bluetooth speaker, all to manage. Ah, and the camera(s) as well.

A single, simple solution

The key to keeping all this manageable and lightweight has been simplification. For me this has meant making sure all these devices can be charged using USB. Yes, the humble USB wall charger is the answer to all our charging problems. So how do you optimise this? My go-to product is the Mu folding plug charger (www.themu.co.uk). The ingenious fold makes the plug flat, small and lightweight. There are the Classic (1A), Duo (2x1.2A), Worldwide Traveller (2.4A interchangeable) and Tablet (2.4A) versions. The Duo allows two devices to charge overnight, or you can go for the Tablet with one fast charging port. The latter is my preference as I can top up rapidly.

So, my phone is microUSB (if you use an iDevice you'll need a Lightning cable) and so are the tablet, power brick, card reader and Bluetooth speaker. This means *one* charge cable for all these. But both the cameras – the Nikon and Fuji – have their own bulky charging blocks with two-core cables and three-pin plugs. I have a little more luck with my Sony Cyber-shot DSC-RX100 Mark II, which directly charges via a microUSB!

If you visit your favourite shopping site and search, you'll find microUSB chargers for every battery imaginable. This was the last link in the chain for simplification. And finally, what about the connection to the electrical outlet? You might have expected me to go for the Mu Traveller, but I've opted for a slightly less bulky multi–travel adapter (pictured) which goes from any plug to any plug for the princely sum of €10. But you'll have to make a trip to a tourist shop in the middle of Vienna, Austria, for this!

Mike Smith is a London-based wedding and portrait photographer. Visit **www.focali.co.uk**

Do you have something you'd like to get off your chest? Send us your thoughts in around 500 words to the address on page 19 and win a year's digital subscription to AP, worth £79.99

Social life

Here are some of our favourite images from the world of social media this week

O Instagram



Daryll Jann @darylljann

While sitting on the sandstone seat of Mrs Macquarie's Chair on a peninsula of Sydney Harbour in Australia, Daryll Jann offers a view of the sunset against Sydney Opera House. He has documented the view through his medium-format camera — an unusual technique.

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Keith Fitzgerald

Keith Fitzgerald captures the gaze of a male impala at the Lion Sands Game Reserve in South Africa. The soft background foliage is a perfect contrast to the strong form of the impala's body.

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Ramon De Juan

This image by Ramon De Juan is titled 'Los Pájaros' (Spanish for 'The Birds'). It is an excellent example of how to achieve an effective silhouette. Ramon has exposed for the highlights, and in doing so rendered the frames of the windows, the dancer and our avian friends as beautiful graphic shapes.

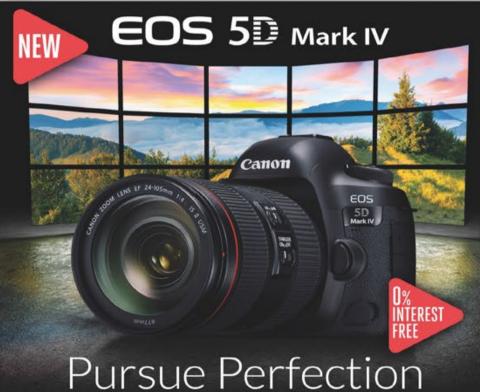
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Canon

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- Sky controls: replace sky, change clouds and colour, cast cloud shadows
- Lighting: change light source, temperature, time of day, go from dawn to sunset
- Automatic area selection: tag areas as sky, trees, buildings, grass, sand, rock, water
- Targeted editing: specially designed controls for different areas
- Distance controls: highlight objects, add fog
- One click presets: wet sand, stormy water, red sunset, lush trees
- And more...





Fine-tune your specialist to together be an autofoculets you man

Sometimes DSLR autofocus systems need a little adjustment to ensure the subject stays sharp. Angela Nicholson explains all you need to know

n many cases when you mount a new lens on your DSLR you'll find that it works perfectly with the autofocus (AF) system, and provided you've got the AF point over the correct part of the scene, it obtains a sharp subject. However, modern cameras and everything is manufactured within tolerance limits. This care tolerance limits. This can mean that some lenses won't focus automatically quite as well as others. And if both your camera

and lens are a little out of kilter, but within their individual tolerance limits, you'll find that the subject never looks quite as sharp as you might hope.

Even if your camera and lens work in perfect harmony from the outset, a sharp knock, exposure to heat and the passage of time can see things change. A once-sharp lens can begin to deliver disappointing results with missed focus.

Thankfully, these days you don't always have to send your camera and lens to a

specialist to get them to play nicely together because many cameras now have an autofocusing calibration system that lets you make the adjustments yourself.

We have a problem

Ironically, the problem with inaccurate focus is often more noticeable with expensive lenses that have a large maximum aperture. With less expensive kit lenses that have relatively small maximum apertures the depth of field can mask any missed focus, so you and the camera get away with it. However, when shooting wide open with a more expensive and faster lens there's very little depth of field, so if the focus is just in front or behind the subject it will look a bit soft.

The issue is compounded by the use of full-frame sensors that result in less depth of field than APS-C-format sensors for any given aperture, subject distance and angle of view. The quick drop-off in



sharpness can make the missed focus very clear.

At first you may think that the subject moved a little or you just had the active AF point over the wrong point, but you'll soon realise that it's not you, the subject or your technique that's at fault. With flat scenes the subject will just look soft, but with scenes that have some depth with objects a little in front of and behind the intended focus target, you may notice that the wrong area is sharp. If a point just in front of the subject is sharp your lens is front focusing, but if a point behind the subject is sharp then it's back focusing.

Take a view

When you shoot with a DSLR in reflex mode (using the viewfinder to compose images), the autofocus system's dedicated sensor mounted inside the camera detects when focus has been achieved. If there's even a tiny misalignment of this sensor, the mirror that reflects light onto it or the imaging sensor, the focus may be off with some lenses making the problem look worse than others.

In live-view mode DSLRs act like compact system cameras (CSCs) and the image that's shown on the rear screen is

Putting it right

MANY enthusiast and advanced-level DSLRs allow you to calibrate the autofocus response for a number of lenses to correct for front or back focusing. Canon refers to this feature as AF Microadjustment, while Nikon calls it Auto Focus Fine Tune. The process itself isn't complicated, but it's fiddly and repetitive, with lots of shooting, checking images and reshooting. Nikon introduced a new automated Fine Tune process with the D500 and D5 that simplifies

matters considerably, so let's hope that other manufacturers develop something similar.

Autofocus calibration targets such as the Datacolor SpyderLensCal (around \$50) are commercially available, but you can also make your own using charts that are freely available online for downloading and printing, such as the one from Andrew R Lawn at www.squit.co.uk/photo/files/FocusChart.pdf. If you don't want to do any printing you can use a ruler angled at 45° to the camera, but it pays to have some form of high–contrast focusing target level with the mid–point to give the camera's AF system a fighting chance.

'You'll soon realise that it's not you, the subject or your technique that's at fault'

provided by the imaging sensor itself. This means if the subject is sharp in live view, whether you focus automatically or manually, it will be sharp in the image. It also explains why CSCs don't suffer from the same focusing issues as DSLRs.

Live-view mode offers a convenient way of checking whether your camera's AF system is focusing a lens correctly. All you need to do is shoot two images – one shot in live-view mode with the lens focused manually at the centre of a scene, and the other shot in reflex mode (with the image composed in the viewfinder) and using the AF system to focus at the centre of the scene. It's important to use the same aperture for each shot because lenses produce softer images when the aperture is wide open or very small. The aim is to produce two images that are identical apart from the fact that the focus was achieved in a different way.

When you examine the two images at 100%, if you find that the subject in the image that was focused automatically is softer than that in the image focused manually, the AF system will need to be adjusted.

Alternative options

IF YOU don't fancy adjusting your camera's focusing system yourself, or if your camera doesn't offer the functionality, you can send it to the manufacturer's service centre or a registered service agent, such as Fixation (www.fixationuk.com), to do the work for you. Canon's service centre charges £60 to calibrate an EOS 5D Mark III and 24–70mm f/2.8 together, with an extra £30 being charged for every additional lens. Meanwhile, Nikon charges £72.47 to calibrate a D810 and 24–70mm f/2.8 VR, and while it can take 2–3 working weeks the company will endeavour to get your camera back to you if you have a specific event coming up.

FINE-TUNING AF THE EASY WAY WITH THE NIKON D500



Nikon introduced a new automated AF fine-tuning system with the D5 and D500, which makes use of the live-view system. Here's how to use it with the D500.



1 Find a high-contrast target

Mount the camera on a tripod and aim it at a flat high-contrast target that's parallel to the sensor. An AF calibration target is ideal, but you can shoot something when you're out with the camera. The target should be at a typical shooting distance for the lens.



2 Turn on live view

Now it's time to active live-view mode on the rear of the camera. The D500 uses the live-view mode to compare the focus on the image sensor with what you're getting on the autofocusing sensor.



3 Make sure you're set to AF

Set the focus mode to autofocus and ensure the camera is set to single AF (AF-S) and wide or normal AF-area mode. It's easy to activate other AF options by mistake on higher-end cameras, so be careful you don't do this.



4 Go for the centre

Press the centre of the multiselector to select the centre focus point. If at any time you get confused, always refer to the camera manual. AF adjustment is a complex area, so don't be too proud to dig out the instructions that came with your camera.



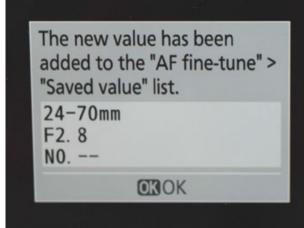
5 Half-way measures

The next job is to press the shutter release halfway, which will usually focus the lens (unless you have set up back-button focusing). Then, zoom in on the rear screen to confirm that the subject is in focus.



6 Double action

Press the AF-mode and movie-record buttons simultaneously and keep them pressed for a little over two seconds until the above dialogue box appears on-screen.



7 Save your values

Highlight Yes and press OK to save the fine-tuning value for the mounted lens (this only works with CPU lenses). Only one value is saved for each type of lens, so you can only calibrate zoom lenses once.



8 Check the menu

In the set-up menu, select AF fine-tune and highlight On before pressing OK. You should then be good to go. Zoom in carefully to your test images to see the differences in focus.

CALIBRATING YOUR AF SYSTEM

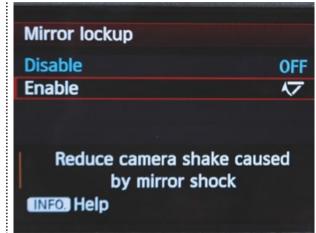


If you find your camera's AF system is front or back focusing and there's an option to adjust it in-camera, consult the manual for the precise process. In our example, we'll explain how to use the Canon EOS 5D Mark III's AF Microadjustment feature.



1 Set up the target

Assemble your calibration target and mount your camera on a sturdy tripod at least 25x the focal length of the lens away. With a 100mm lens this means positioning the camera at least 2.5m (8.2ft) from the subject. However, if you regularly shoot at a particular distance, it's worth moving to that point.



2 Lock up the mirror

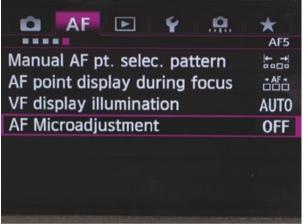
Select mirror lock-up or exposure-delay mode and use a remote release to ensure that you get shake-free images. Even the tiniest hint of movement recorded by the sensor will make it very hard to calibrate your AF correctly.



4 Check on the computer

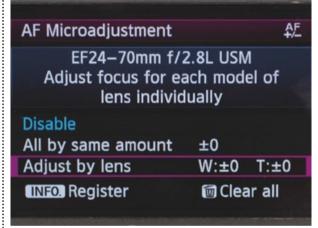
Now open the images on your computer and examine them at 100% on-screen. Examine the sharp zone of the image and determine whether the camera is focusing the lens in front of or behind the intended target. In the above image, the camera is focusing in front of the target.

.....



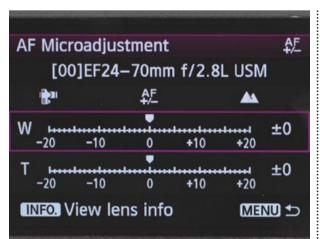
5 Open the menu

Next, open the camera menu and navigate to the fifth page of the AF options. AF Microadjustment is at the bottom of the list. Each camera is different, however, so check the manual



6 Assess the various options

Press Set and scroll down to Adjust by lens before pressing the Info button to access the options. Spend some time understanding everything properly as AF fine tuning is not something you want to get wrong.



8 Zoom with a view

With zoom lenses you are able to adjust the focus point of the shortest and longest focal lengths independently, but just tackle one at a time. Use the scroll dial to select the focal length that you want to adjust, then press Set.



9 A matter of degree

Now use the main dial to set the degree of focus adjustment to apply, with ±5 a good starting point. If the lens is front focusing you need to dial in a positive adjustment, while if it's back focusing you need to apply negative adjustment. Press Set followed by the Menu button to confirm the adjustment.



10 Perfecting the calibration

Shoot the calibration target again and examine the images to assess the effect of the adjustment. If necessary (and it probably will be), repeat the adjustment process to refine the calibration.



3 Shoot wide open

Set the camera to expose the subject correctly with the widest aperture selected. You shoot wide open to reveal any focusing inaccuracies. Looking through the viewfinder, put the centre AF point over the chart focus point (or the middle of the scale on the ruler) and take a shot.



7 Confirm your choices Press the Info button again to review the lens

information and check its serial number. If the number is not visible and you just see a series of zeros, use the Set button and main dial to enter the correct number. When you've finished, select OK to go back to the AF Microadjustment screen.



11 Repeat if necessary

If you are calibrating a zoom lens, repeat the adjustment process for the longest focal length, but only once you're happy that the lens is focusing in the right place at the shortest focal length.



Not sure if you have an autofocusing problem?

Follow these simple steps to produce images that will make it clear if your camera and lens combination is causing problems for the autofocus system

- Find a suitable subject to photograph and mount your camera on a sturdy tripod.
- Set the camera to expose the subject correctly when you have the widest aperture selected.
- Activate live-view mode and switch to manual focusing. With the image magnified on the screen, focus carefully on the subject at the centre of the frame before taking a shot.
- Now deactivate live-view mode and switch to autofocus mode. Use the central focus point in the viewfinder to focus on the same part of the scene as you did in live-view mode and take a shot.
- Open the images on your computer and examine them at 100% on-screen. If you find that the subject in the image taken using autofocus looks softer than the one taken in live-view mode, you would need to tune the AF system.

Third-party adjustments

ALTHOUGH it is possible to adjust the autofocusing of third-party lenses in-camera, Sigma and Tamron offer alternative solutions. In 2013. Sigma introduced its USB Dock (around £39). This has a lens mount and enables owners of Sigma Art, Contemporary and Sports lenses to upgrade the firmware and customise the focusing via a USB connection to a computer running the company's Optimisation Pro software. However, the adjustment process still relies on you taking shots to test whether the level of alteration is correct. and then trying again until you eventually find the right setting.

Tamron's TAP-in Console was announced earlier this year and works in a similar way to the Sigma USB Dock, with some of the company's recently announced lenses using the TAP-in Utility software. We have yet to test it.

Sigma's USB Dock is compatible with the following lenses.

Art

20mm f/1.4 DG HSM | A, 24mm f/1.4 DG HSM | A, 30mm f/1.4 DC HSM | A 35mm f/1.4 DG HSM | A, 50mm f/1.4 DG HSM | A 18-35mm f/1.8 DC HSM | Art, 24-35mm f/2 DG HSM | A, 24-105mm f/4 DG OS HSM | A, 50-100mm f/1.8 DC HSM | A

Contemporary

17–70mm f/2.8–4 DC Macro HSM | C, 18–200mm f/3.5–6.3 DC Macro OS HSM | C, 18–300mm f/3.5–6.3 DC Macro OS HSM | C, 150–600mm f/5–6.3 DG OS HSM | C

Sports

120-300mm f/2.8 DG OS HSM | S, 150-600mm f/5-6.3 DG OS HSM | S

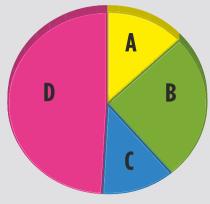
Tamron's TAP-in Console (TAP-01) is compatible with these lenses

SP 85mm f/1.8 Di VC USD,

SP 90mm f/2.8 Di Macro 1:1 VC USD,

SP 45mm f/1.8 Di VC USD,

SP 35mm f/1.8 Di VC USD



In AP3 September we asked

Can mirrorless cameras match DSLRs for your kind of photography?

You answered...

A No, and they never will	13%
B No, but I expect they will soon	26%
C Yes, and I plan to buy one for my next camera	12%
D Yes, and I've already switched	49%

What you said

'I still enjoy using my full-frame DSLR, but for day-to-day photography the default is my CSC.'

'There's nothing wrong with mirrorless, absolutely nothing, but for me they're physically too small and don't feel right in my hands. That's why I moved from mirrorless to DSLR!'

'I still have a DSLR, but I have not touched it in two years, so I can say the change has well and truly stuck.'

'As others have said, yes, mirrorless can probably match DSLRs technically for my kind of photography – mainly landscapes – but I still prefer the feel of a DSLR. So no option for me to vote. And I'm quite enjoying using rangefinders (coupled and uncoupled), and even scale-focus cameras, as well!'

'Just purchased a Panasonic Lumix DMC-GX8 and it does the job as a lightweight travel camera. Would I ditch the Canon EOS 5D Mark III? Never! By the way, the GX8 has an amazingly fast focus system and 8fps.'

Join the debate on the AP forum

This week we ask

What's the most amount of money you've ever paid for a lens?

Vote online www.amateurphotographer.co.uk

Top news stories

What's trending on the AP website



- 1 Canon targets photo enthusiasts with revamped Pixma inkjet printers
- **2** Tamron unveils revamped 150-600mm 'ultra-telephoto'
- **3** Amazing insect picture wins global contest
- **4** Camera seller Simply Electronics halts trading
- **5** Canon develops new sensor in bid to expand dynamic range

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LETTER OF THE WEEK

Ansel Adams and the Grand Tetons

The Ansel Adams photograph of the Grand Tetons (pictured) in AP 27 August (*Big Picture*) is a fine example of the great man's work, but I respectfully suggest that the same view produced by Minor White in 1959 is equally worthy of attention. Much of Minor White's work had a mystical quality and his Grand Tetons photograph is emotionally compelling – capturing a brief moment when the magic casements of Keats opened to reveal a unique, otherworldly view.

Peter McKenzie, Northumberland

I completely agree. Minor White's image contains so much of why we love landscape photography. The heavenly light spilling from the clouds to illuminate the landscape is a true demonstration of how a landscape will never look the same twice. No one will ever be able to take that image in exactly the same way. I think I actually prefer White's image. The sparse tonal

range emphasises the graphic qualities of the scene. There's a lot more room for viewers to use their imagination here, and I would argue, a lot closer to the much sought-after 'sublime' representation of the landscape. When it comes to scenes like this, it's easy for us to jump straight to Ansel Adams. But we risk missing other photographers who shot in the same location – Oliver Atwell, senior features writer



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ETTER OF THE WEEK WINS A 16GB SAMSUNG SD CARD. NOTE: PRIZE APPLIES TO UKAND EU RESIDENTS ONLY

As a regular reader of AP for many decades. I really must compliment the magazine on the features and help it has provided me over the years. AP is a valuable reference for 'true amateurs' and those who like to follow more technical aspects of photography. I have been in touch with quite a few photographic dealerships over the decades, but here I pay special tribute to a fine institution called WEX. The staff at WEX go out of their way to provide an exceptional service to their customers and are deserving in my estimation of an award for most helpful beyond the call of duty. Their product knowledge is exceptional and their willingness to help potential and actual customers is

outstanding. I applaud WEX unreservedly.

One final thought to AP is this. It might prove helpful if the magazine was to involve amateurs more. This isn't a criticism. The insight of amateurs will be of help, I'm sure. Maybe a page for amateur comments?

J Thomas, Porth, Wales

Good to hear you enjoy the magazine, and that you've had such great service from WEX. Thank you for writing in to tell us. And thanks for your suggestion on a page for amateur comments. We do have a Poll of the Week in *Inbox*, where we ask readers for their opinions on various topics. You can check it out online at www. amateurphotographer.

co.uk/forums/forums/
weekly-poll.60. Or you can
submit your opinion or
views on *Viewpoint* in *7 Days*as well – **Andy Westlake**,
technical editor

World Cup feature

It's not that we're not grateful to you for another reminder of your World Cup win a long time ago, but perhaps the introduction to your piece *Fever pitch* (AP 16 July) should have said 'the most important game ever played in England'. **Stuart Neville, West**

Dunbartonshire

Equivalent apertures

I read the article Equivalent apertures (AP 23 July) with interest. In relation to prime lenses, if using a full-frame lens on a smaller format body,

could you achieve sharper images as well as a wider range of 'usable' apertures (for a maximum depth of field)? By utilising only the sharper centre of a larger format lens rather than the lens designed for the format, would pictures be sharper across the image frame for every aperture compared to the 'equivalent aperture' of the smaller lens?

Also, would you get away with a slightly larger 'equivalent aperture' for a given depth of field (when limited by minimum shutter speed), as the edges of the image would not be as 'soft' (this softness giving the impression of the loss of depth of field). Would you be able to use a slightly smaller 'equivalent aperture' before diffraction takes effect at the edges of the image frame? Or are the best smaller format lenses so good that any real-world advantage is negligible?. If there is some value to be had, what of using medium format lenses on full-frame bodies?

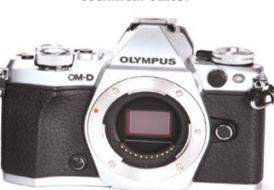
Paul Haywood, Ireland

The concept of equivalent apertures relates to the camera's sensor size, not the lens used on it. If you use a full-frame lens on an APS-C camera, you still have to think in exactly the same way about the best choice of aperture as if you're using a lens purposedesigned for the sensor size. For example if you're a Canon user, a full-frame EF lens will show just the same amount of diffraction blur

at any given aperture as an **APS-C** optimised EF-S lens. **Diffraction blurring** becomes more visible on the smaller sensor because vou're effectively cropping and enlarging the image.

Equally, while you might have read discussions about getting better results on **APS-C** by using the 'sweet spot' of a full-frame lens and cropping away the edges, objective testing reveals that this usually isn't true. Assuming you'll be comparing images at the same size, lenses designed for smaller sensors need to be sharper – the smaller sensor needs them to resolve finer detail. Normally, lenses work best on the format for which they've been designed and sensors give the best results with lenses that have been purpose-designed for them Andy Westlake, technical editor





Equivalent apertures relates to the camera's sensor size, not the lens used on it

In next week's issue On sale 27 September



Hit the street

Three leading exponents share their tips for great candid shots and street portraits

Fujifilm X-T2 review

Michael Topham finds out if the X-T2 lives up to the hype

Tips from **Magnum greats**

Words of advice from some of Magnum's top photographers – past and present

Epson Expression Photo XP-960 printer

Vincent Oliver tests an all-in-one photo printer from Epson

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Printed in the UK by the Wyndeham Group

Distributed by Marketforce, 5 Churchill Place, London E14. Telephone 0203 787 9001

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'Spend it on the lens' goes the famous adage. So what lenses do award-winning shooters from a variety of genres use, and why?

Mark Benham markbenham.co.uk



MY MAIN lens is the Canon EF 24-105mm f/3.5-5.6 IS STM. It's a very practical lens as it's stabilised and offers both zoom and wideangle options, so you can take it anywhere, which is great. However, I shot the winning image for this year's Pink Lady Food Photographer of the Year competition (below) with a Canon EF 50mm f/1.8 STM. You can easily get this for under £100 if you shop around and it's a bargain – an ideal first lens to go alongside your kit lens. It's very light but also very sharp for the money, with

Below: Fast, light and sharp, the Canon 50mm is perfect for grabbing decisive moments great optics. Remember, 50mm is a classic focal length for portraits. There is so much clarity with prime lenses but relatively little distortion. Using f/1.8 is also wide enough for me at the moment. So it just goes to show that you don't need to spend a bomb on lenses, but choose wisely.

● £335 (24-105mm), £93 (50mm) ● www.canon.co.uk



Jeremy Walker jeremywalker.co.uk



MY FIRST favourite is the Nikon PC-E Micro Nikkor 45mm f/2.8D ED Tilt-Shift lens. As a landscape photographer most readers would probably expect me

to be using the 24mm Tilt-Shift, but the 45mm fits the way in which I see the world and the way I work. Not only does the lens have the rise and fall for use in architectural photography (rise and fall negates converging or diverging uprights on buildings), but it's extremely useful if your landscape has verticals such as trees, or you want to get rid of foreground without actually pointing the camera upwards. The 45mm PC-E also has a tilt mechanism that allows the front elements to be tilted forward, which can allow greater control

over the depth of focus. Optically, the lens is stunning (although it's only manual focus) and it's a brilliant macro lens – great for details and close-ups.

My second favourite lens is the Nikon AF-S Nikkor 24-70mm f/2.8G ED zoom - my 'go-to' lens, along, I suspect, with many other professional photographers. It's wide enough for landscapes and long enough for portraits without being on top of your subject, so it's a great all-rounder. Meanwhile, the fast aperture sucks in light while making it straightforward to blur out the background in portraits. I also use the 24-70mm for creating stitched panoramas. But for panorama stitching I never use a focal length wider than 35mm. Going wider may lead to distortion, as would happen on any wideangle.

● £1,660 (45mm), £1,200 (24-70mm) ● www.europenikon.com



Left: Decaying fishing boat stranded on a beach, taken handheld with Jeremy's 24-70mm



Above: A long fast lens is exactly what you want when a lion is heading your way

Chris Weston chrisweston.photography



MOST people consider wildlife photography to be the realm of super-long telephoto lenses, fast primes and zooms up to 600mm and more.

But my all-time favourite lens for wildlife is a Fujinon XF 35mm f/1.4 R – equivalent to a 50mm 'standard' lens. Such a short focal length means I have to allow wildlife to come close to me, which takes time, patience and field craft. The beauty of this lens is that it records images very close to how we see it. There's no wideangle distortion or the contracting of spatial relationships you get from using telephotos.

That said, my workhorse lens is the Fujinon XF 50-140mm f/2.8 R medium (equivalent to a 70-200mm f/2.8 medium telephoto zoom). This is a fast zoom lens that gives me greater flexibility when setting exposures; it's also relatively small and light, which is useful in tough environments. Both lenses bring out the best from the sensor.

• £360 (35mm), £1,150 (50-140mm) • www.fujifilm.eu/uk

Kevin Mullins kevinmullinsphotography. co.uk



AS A documentary wedding and event photographer, my favourite lenses are the Fujinon XF 23mm f/1.4 R and the Fujinon XF 56mm f/1.2 R. When

I used an SLR, I always used a 35mm and an 85mm, so this is the closest I can get on Fujifilm's system. The 23mm gives me a close field of view, while the 56mm lets me get in more of the scene. For wideangle images I also use a Fujifilm X70 compact camera with a 14mm wideangle adapter, so I can get in close and shoot from the hip.

I shoot at wide-open apertures most of the time. I use back-button focusing so I can lock focus and recompose. With new Fujifilm lenses I can shoot at 1/32,000sec, so I don't worry about shooting wide open on a sunny day. Also, f/1.2 on my 56mm lens is still only equivalent to f/1.8 on a full-frame SLR. I have never used zooms – I want uniformity in my images,



which clients can then see on my website so they know what they are getting. With zoom lenses there are too many permutations and distortions.

- £669 (23mm), £680 (56mm)
- www.fujifilm.eu/uk

Above: The 56mm picks out 'moments' in an unobtrusive manner

Below: A hoverfly covered in pollen, shot with Heather's 105mm

Heather Angelheatherangelphotography. co.uk



MY FAVOURITE lens has been Nikon's Micro-Nikkor 105mm ever since it was released. It has been my choice for macro work, both in the field and in my

studio, and my current model is the AF-S VR Micro-Nikkor 105mm f/2.8G IF-ED. I used it while working on two pollination projects for Kew (my book Pollination Power published in 2015) that required detailed anatomical shots of flowers and action shots of pollinators. The 105mm lens allows speedy adjustment from AF to manual focus, which I need for intricate flower shots. It also provides a greater working distance from the front of the lens and the subject than the AF Micro-Nikkor 60mm f/2.8D lens at 1:1 magnification. This gives more space for positioning a reflector to boost natural light. The longer macro lens is also ideal for capturing insect pollinators on flowers.

For bird pollinators on flowers, I use the AF-S Nikkor 70-200mm f/2.8G ED VR II. When used with the TC-20E III teleconverter, it becomes effectively a 70-400mm lens, and the VR means handheld shots are possible. This lens is also useful for larger butterflies that move speedily.

move speedily.

- £619 (105mm), £399 (60mm), £1,799 (70-200mm)
- www.europe-nikon.com



John McMurtrie picturedesk.co.uk



I'M A music photographer and official shooter for metal legends Iron Maiden, and my all-time favourite lens is the Nikon AF-S Nikkor 70-200mm f/2.8G ED VR II. I won't attempt to shoot a live show without it. At a gig you can't always get close to a subject because of the height of the stage, and having the extra focal

length usually allows me to get close crops on a singer's face and full frame on a guitarist.

For a head-shot front cover I shoot a lot of frames. There are several reasons why I use a longer focal length. First, I am further away from my subject; I don't want to be so close that I am breathing in their face. Second, the longer focal length compresses perspective and makes them look slimmer. Last, together with a wide aperture it throws the background out of focus and really makes a portrait zip!

• £1,799 (70-200mm) • www.europe-nikon.com



Right: Long, fast, stable and sharp – the perfect lens for gig photography



Damian Shieldsdamianshields.photoshelter. com



THE Nikon AF-S Nikkor 70-200mm f/2.8G ED VR II is my travelling lens, and is attached to my Nikon D800 before I go anywhere. I also like to keep the lens

on the camera while moving around

on foot for the same reason. There are many opportunities for images while making my way from A to B. The added bonus of VR helps in these handheld situations and the lens focuses really quick to target.

What's more, image sharpness from 70-200mm is crisp right across the image with only slight falloff when shooting at the longer end. As well as one always on the camera, I also have an extra tripod plate attached to the lens to avoid

Above: The Pass of Glencoe, taken with Damian's trusty Sigma 24-70mm continually switching the one plate between set-ups. My second favourite is the Sigma 24-70mm f/2.8 IF EX DG HSM. It's just as well suited to handheld shooting as the Nikon but lacks VR. It has great sharpness across the frame, and I love being able to switch between manual and autofocus by sliding the barrel.

● £1,770 (70-200mm), £526 (24-70mm) ● www.canon.co.uk, www.sigma-global.com/en

Adrian Dennis adriandennis.com



AS I work for a news agency, I'd have to say the Canon EF 70-200mm f/2.8L IS II USM is one of my favourite lenses – you'll find it in most

press photographers' bags. The lens is very versatile as a lot of press work is done within this focal length range. It's sharp and the autofocus is good; it also has the advantage of an image stabiliser for when you're shooting in very low light or using particularly long exposures.

Moreover, when you have to be

mobile carrying two cameras – one with a wideangle and the other with the 70-200mm – you're covered for most eventualities. If you're really stuck for needing a long lens, the telephoto zoom works well with a teleconverter for when you need just that little bit more.

Another lens that is dear to my heart is the Canon EF 400mm f/2.8L IS II USM super-telephoto lens. Most football and rugby in the UK is shot with this lens, usually in conjunction with the 70-200mm. I spend a good deal of my time on the sidelines, and I'm looking to capture the action using fast shutter speeds with the lens 'wide open'. The idea is to keep the viewer's attention on the

Below: The 70-200mm is very versatile, giving vital extra reach without weighing you down

sharp players while the background 'blows out' into clean even tones.

• £1,772 (70-200mm), £8,350 (400mm) • www.canon.co.uk





Sue O'Connell sueoconnell.photography



AS A travel photographer (not a weightlifter!), my choice of lenses will always be a compromise between speed and

portability. Fortunately, increased ISOs and improved stabilisation make this less of an issue these

days. My go-to lens is the Canon EF 24-105mm f/4L IS USM. It has the perfect combination of range and quality, and I used it to shoot award-winning images in the Travel Photographer of the Year and National Geographic Traveller competitions. This lens is more or less permanently attached to my Canon EOS 6D (full-frame) body, taking complete advantage of its wideangle capability.

Above: The 16-35mm is great for tight interior shots, as we can see in this fish-market scene My other regular lens is the Canon EF 16-35mm f/2.8L II USM, which is a great ultra-wide zoom. It's expensive but fast, silent, accurate, a joy to handle and responsible for many award-winning images. This has served me particularly well in Myanmar [Burma], both in tight interior contexts and to add drama to close-ups.

• £727 (24-10mm), £1,060 (16-35mm) • www.canon.co.uk

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A SMALL PLOT OF LAND

Here we have the top 30 images for round 6 of APOY 2016 - A Small Plot of Land (Landscapes and Cityscapes)

andscapes and cityscapes are wonderful genres for any photographer to explore. Both types of photography, somewhat interchangeable with regard to technique, require the application of the most well-known and fundamental rules of photography. Both are made or unmade by the light, and both can benefit from accessories such as filters. Landscape and cityscape photography require photographers to learn to break down the scene and mentally reduce it to its most essential components in order to make sense of chaos.

In this round, we asked you to send us your best images of landscapes and cityscapes, and once again, the images we received were of an overwhelming quality. The winner of round 6 (Landscapes and Cityscapes) is Adam Stephenson from Halesowen in the West Midlands. He receives a Sigma dpO Quattro camera and Sigma LVF-O1 LCD Viewfinder. The SIGMA dpO Quattro is the

fourth dp camera in the Quattro series and incorporates a high-performance 14mm f/4 lens (equivalent to a 21mm lens on a 35mm SLR).

The lens of the dpO achieves the highest optical performance, and features four FLD ('F' low dispersion) glass elements, which have performance equal to fluorite; two SLD (special low dispersion) glass elements; and two aspheric lenses, including a wide doublesided aspheric lens. This reduces chromatic aberration and distortion, which are characteristics that are often present in superwideangle photography.

Perfectly suited to landscape photographers, the addition of the Sigma LVF-O1 LCD Viewfinder cuts off outside light and magnifies the LCD display 2.5x, allowing photographers to check focusing and composition more easily – a crucial application when shooting subjects such as landscapes and cityscapes.

All in all, Adam takes home a prize value worth £999.99.



1 Adam Stephenson West Midlands 50pts

Nikon D750, 14mm, 25secs at f/2.8 ISO 2,500

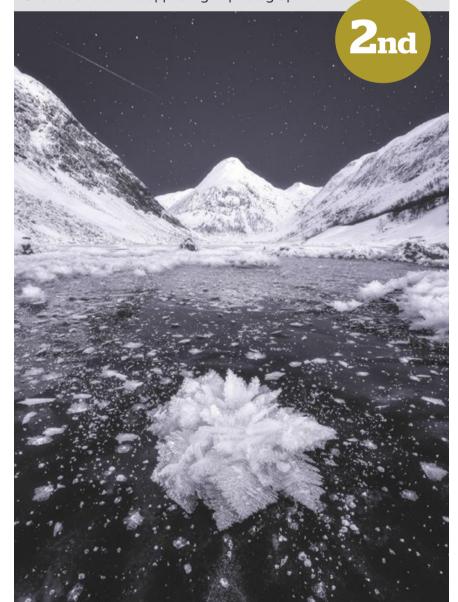
In first place for this round we find a common trope in landscape photography – the lone tree. But what marks this image out is its immense scale. Behind the tree we have the glowing lights of Hereford; in the foreground is the grass; and above it all is the sweeping arch of the Milky Way. It's such an impressive image!



2 Stian Nesoy Norway 49pts

Canon EOS 5D Mark III, 16mm, 20secs at f/4, ISO 400-1,600

These unique ice-crystal formations were captured on a frozen river by the high mountains of Norway's west, Stian tells us. The image was shot in the narrow window of time between the river freezing over, but before snow blanketed the landscape. The image looks almost alien and shows us why the landscapes of Scandinavia are so appealing to photographers.



The 2016 leaderboard

Penny Halsall is in first place with a very impressive 182 points, while 50 points behind her in second place is Dominic Beaven with 132 points. In third we find George Digalakis with 130 points. In fourth place is Bertrand Chombart, and in fifth is Adam Stephenson.

Penny Halsall	182pts	6 Sigita Playdon	119pts
Dominic Beaven	132pts	7 Adrian Mills	117pts
George Digalakis	130pts	8 Russ Barnes	116pts
Bertrand Chombart	129pts	9 Fearghal Breathnach	103pts
Adam Stephenson	125pts	10 David Fletcher	94pts
	Dominic Beaven George Digalakis Bertrand Chombart	Dominic Beaven 132pts George Digalakis 130pts Bertrand Chombart 129pts	Dominic Beaven132pts7 Adrian MillsGeorge Digalakis130pts8 Russ BarnesBertrand Chombart129pts9 Fearghal Breathnach







3 Denis Dowland London 48pts

Canon EOS 700D, 18-135mm, 1/1,000sec at f/11, ISO 800

In third place we have a city shot, and it's a rather unconventional one. Here we see a view of Canary Wharf taken from a building site across the river. Usually, city shots focus squarely on the jutting graphic forms of the buildings, but here Denis has offered a unique perspective by using a building site as his foreground. The smooth mountains of grit and sand will eventually play their part in forming hard-edged buildings. The relentless expansion of the cityscape continues. It just goes to show that there's a fresh angle to any subject.

4 Daniel Llamas Spain

47pts

Nikon D610, 14-24mm, 30 secs at f/2.8, ISO 6,400

New and old – we see the glow of Galicia's light pollution and the ancient spread of starlight.

5 Daniel Lois Otero Spain

46pts

Nikon D610, 14-24mm, 30secs at f/2.8, ISO 3,200 This image was a stitched panorama of 10 frames and took two years to master.

6 Dominic Beaven London

Canon 5D Mark III, 17-40mm, 69secs at f/13, ISO 50

This image was taken using a 10-stop Zomei ND filter to increase the exposure time and achieve the charcoal smear of sky.

7 Alan Warriner Newcastle

44pts

 $Can on EOS\,350D, 10\text{-}22mm, 20secs at f/11, ISO\,100$ This is Bassenthwaite in the Lake District in all its winter beauty. Great use of strong colour within an otherwise monochrome landscape.

8 David Hendry Glasgow

43pts

Sony Alpha 65,10-20mm, 6secs at f/7.1, ISO 100, polariser David took this extraordinarily beautiful shot in Finnich Glen. The polariser has been vital here in order to remove the reflections from the water and reveal the textured floor of the river.

9 Keith Trueman Devon

42pts

Canon EOS 7D, 10-22mm, 0.3sec at f/11, ISO 100 'This was a tricky shot to get as you need a spring low tide that coincides with the setting sun,' says Keith, of this shot of Northam Sands.

10 Grant Hyatt Neath Port Talbot Nikon D610, 24-70mm, 20secs at f/20, ISO 100

By using a slow shutter, Grant has rendered the moving clouds to look almost like a waterfall.

11 Chris Gebauer Australia

40pts

Fujifilm X-Pro1,16-50mm, 20secs at f/22, ISO 200 Chris found this coastal scene in Sugarloaf Rock at Cape Naturaliste, Western Australia.

12 Abhijit Chatterjee India

39pts

Nikon D7100, 11-16mm, 1/500sec at f/10, ISO 250 Abhijit has created a brilliant abstract scene by simply using reflections in a puddle.

13 Gavin Duncan Falkirk

38pts

 $Nikon\,D800, 24\text{-}70mm, 1/60sec\,at\,f/9, ISO\,100$

This is a two-shot panorama of the Quiraing on the Isle of Skye.

14 Iain Turnbull Highland

37pts

Canon EOS 5D, 28-300mm, 1/60sec at f/11, ISO 100 This is an example of how to use negative space! Titled 'The Storr in Low Cloud', it was taken in the Isle of Skye in April 2015.

15 June Morrissey Berkshire

Canon EOS 5D, 24-105mm, 1/200sec at f/8, ISO 200 The toning has given June's image an almost nocturnal and cinematic atmosphere.

16 Bertrand Chombart France 35pts

Nikon D800E, 24mm, 120sec at f/8, ISO 100

Paris's Place Vendôme gets a monochrome makeover in Bertrand's image.

17 Valentyn Odnoviun Lithuania 34pts

Nikon D700,50mm,1/250sec at f/14,ISO 200

A minimalist look at landscapes here; it's a superb example of natural visual balance.

18 David Ball Nottingham

33pts

Canon EOS 6D, 17-40mm, 1/200sec at f/11, ISO 200

Again we see how space can be used excellently. The glow of the rising sun throws a beautiful cast upon the scene.

































19 Jacinta O'Shea Bristol

iPhone 6, 4.15mm, 1/6, 400sec at f/2.2, ISO 32

It's amazing to realise that this image of Aiguille du Midi, Mont Blanc, in the French Alps was taken on an everyday smartphone. It really goes to show that not every epic shot of landscapes has to been taken with a top-ofthe-range DSLR.

20 Dominic Burdon Oxfordshire 31pts

Nikon D800, 200mm, 1/500sec at f/8, ISO 250

Dominic's image of Washington State in the USA proves how the right light (observed from the right vantage point) can bring any landscape to life. The sun has also done great work of revealing the mesmerising patterns of the landscape.

21 George Digalakis Greece Nikon D7000, 27-200mm, 1/250sec at f/9, ISO 100

Here we see a part of Stonehenge not often seen – the simple fields that surround it. There's something to be said for turning a few degrees and seeing the areas that surround often-photographed landmarks.

22 Elena Kurlaviciute Cheshire 29pts

Nikon Coolpix L5, 20.2mm, 1/610sec at f/4.3, ISO 79 The powerful forms of the mountains are incredibly graphic and impressive. It's a scene that almost requires a kind of humble silence.

23 Penny Halsall Oxfordshire Sony Cyber-shot DSC-RX100, 10-40mm, 1/200sec at f/11, ISO 125

'On the way to Lambourn, the landscape as you climb up the Ridgeway opens up and becomes rather atmospheric,' says Penny.

24 Peter Henry Cumbria

Nikon D600, 105mm, 1/320sec at f/8, ISO 200

This image taken in Ullswater looking towards Patterdale is all about visual layers. Look at how each section is stacked.

25 Felix Belloin London 26pts

Canon EOS 5DS R, 70-200mm, 1/50sec at f/8, ISO 100

Felix took this picture at Ben Nevis at 6.15am. He has used the light almost like a spotlight to reveal just a small section.

26 Fearghal Breathnach Ireland

Canon EOS 5D Mark III, 16-35mm, 120secs at f/16, ISO 50 This image titled 'This Green & Pleasant Land' is a blend of three exposures: one with a Little Stopper and two without.

27 Anita Nicholson Northumberland 24pts

Canon EOS 5D Mark II. 17-40mm. 1/4sec at f/9, ISO 50

This is an image of the Pap of Glencoe on the shores of Loch Leven, and the rustcoloured seaweed adds a nice element of foreground interest.

28 Dylan Nardini South Lanarkshire 23pts

Nikon D810, 70-200mm, 1/40sec at f/8, ISO 100

The crooked leading line is nice enough, but the sheep are a massive bonus to the image.

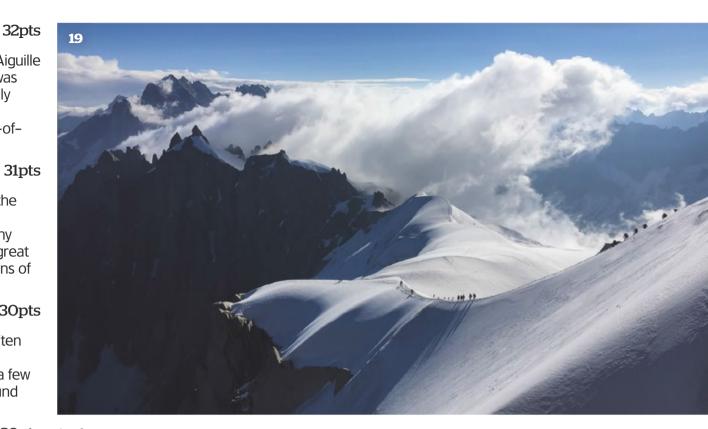
29 Stu Meech Warwickshire

 $Nikon\,D750, 16\text{-}35mm, 1/60sec\,at\,f/10, ISO\,100$ What a great image! After a brief rain shower, a rainbow forms over a field of poppies.

30 Martin Watt Fife

Canon EOS 5D Mark III, 16-35mm, 1.3secs at f/13, ISO 200

This is Sango Beach at Durness in the Scottish Highlands. You can almost smell the sea air and hear the rush of waves.



'It's amazing to realise that this image (above) of Aiguille du Midi, Mont Blanc, in the French Alps was taken on an everyday smartphone'











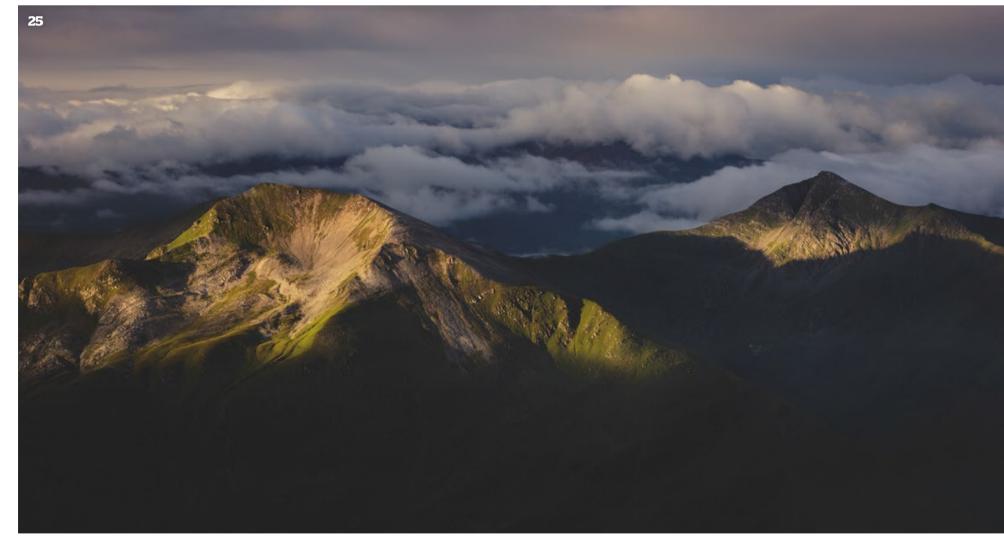














Don't miss...

Digital Splash 16 15 & 16 October 2016

At Exhibition Centre, Liverpool L3 4BX

DIGITAL SPLASH – the north of England's biggest photography and optics show – is back once again! Digital Splash 16 is the place to be for all photographers, from enthusiasts to professionals, to get hands–on with the latest equipment, seek expert advice, get inspired by talks and get involved in great workshops – not to mention grabbing special show offers. Some of the biggest names in

photography will be giving talks about their latest work, how they get their shots and their passion for photography, so you can learn from some of the best in the business.

You can get involved before the show with the Digital Splash Awards photo competition, where you could win a share of £1,700 and have your image exhibited at the show.

Entry to Digital Splash 16 is £5 per person

on the day, but it's FREE if you register in advance. Registering also gets you a unique discount code for 25% off talks and workshops when booked in advance. Registration for free entry closes on Friday, 7 October, so don't delay! Visit www.digitalsplash.tv for more details or call

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Visit the show Digital Splash Photography Show will be held on 15 & 16 October 2016 at Exhibition Centre Liverpool, King's Dock, Liverpool Waterfront, Merseyside. Opening times: 10–6pm daily. To enter the competition, register for tickets and find out more about the show, visit **www.digitalsplash.tv**. Tel: **01772 252188**.

Talks and workshops

Ross Grieve



From Sweden to Sydney,
Ross has been working for
clients such as Waldorf
Astoria, RSA and
Panasonic. A pioneer of 4K
photography, Ross works
both outdoors and from his
studio in Pembrokeshire.

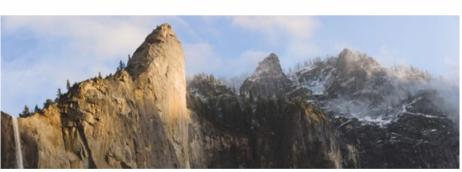
Ross Grieve Seminar 1 The Power of 4K Photography

Saturday 15 October, Focal Point Theatre, 12pm As a 4K photography pioneer working with the technique for more than two years, Ross takes guests through how to shoot 4K across all aspects of photography – sports, commercial, food and studio. Find out how and why he uses 4K for his professional work.

Ross Grieve Seminar 2 Silent Street Photography

Saturday 15 October, Focal Point Theatre, 3pm Everyone loves people watching, so it's no surprise that street photography has been growing in popularity all around the world – it's

accessible to everyone and a great way to improve one's photography skills. Ross teaches the techniques to improve street photography, including how to use 4K to get the most out of your shots.



01772 252188.

Michael Freeman



Michael Freeman is an award-winning editorial

photographer. Author of best-selling photography book *The Photographer's Eye*, which has sold over a million copies, Michael has spent much of his working life focused on Asia, from Thailand to Japan and China.

Michael Freeman Seminar 1 The Photographer's Eye on Travel

Sunday 16 October, Aperture Theatre, 12.30pm Now that everyone travels (or feels that they can) and everyone shoots, how do you stand out from the ocean of imagery? Michael explains how.

Michael Freeman Seminar 2 10 Ways to Make Your Photography More Creative

Sunday 16 October, Aperture Theatre, 3.30pm Michael provides ten generally unexpected paths that you might not have considered to get your photography onto a meaningful creative track that will also help you develop a personal style of shooting.

© MICHAEL FREEMAN

Faye and Trevor Yerbury





Trevor Yerbury are an awardwinning team of portrait and fine-art nude

Faye and

photographers. They have exhibited around the world and have had their work featured in many magazines and books.

Faye and Trevor Yerbury Seminar 1 The Fine Art Nude

Sunday 16 October, Aperture Theatre, 11am With more than 30 years' experience, Faye and Trevor discuss their development, changing style and approach – as well as how to market and sell one's work through the internet and physical galleries.

Faye and Trevor Yerbury Seminar 2 Portraits & Projects

Sunday 16 October, Aperture Theatre, 2pm Faye and Trevor look at the importance of visual self-development by setting yourself a major project each year. The resulting work can have a direct influence of your portraiture both in the studio and on location.

Kate Hopewell-



Featured many times in Amateur Photographer,

Kate Hopewell-Smith is a woman of many talents. A photographer, trainer and Nikon Ambassador, Kate is one of the most respected photographers in the industry. She runs a six-month mentoring scheme and group training seminars.

Kate Hopewell-Smith Seminar 1 Kate Hopewell-Smith on Weddings

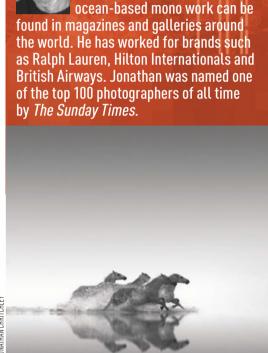
Saturday 15 October, Aperture Theatre, 12.30pm Kate discusses how she works with natural light on location, when to add on-camera flash to improve poor light and the lighting techniques she uses when she has to fully light a wedding couple on their big day.

Kate Hopewell-Smith Seminar 2 Kate Hopewell-Smith on Portraits

Saturday 15 October, Aperture Theatre, 3.30pm In this talk, Kate shares five things that she says will help you create location portraits with impact. Find out how light, location, composition, posing and expression will help deliver consistently strong location portraits.

Jonathan Chritchley





Jonathan Chritchley Seminar 1 Forging Silver

Sunday 16 October, Focal Point Theatre, 10.30am Jonathan runs through his journey to becoming one of the world's most well-received photographers – from first influences to his first book.

Jonathan Chritchley Seminar 2 Every Cloud...

Sunday 16 October, Focal Point Theatre, 1.30pm Following on from Forging Silver (see above), the second talk by ocean photographer Jonathan focuses on his work in 2015, when he visited four continents in six months and worked with three of his photographic heroes, and goes on to reveal some exciting future projects.

Ann and **Steve Toon**



Ann and Steve have written several books. and lead

workshops both in the UK and on safari in Africa. When not on reserve in Africa, Ann and Steve can be found roaming the wilds of Northumberland National Park.

Ann and Steve Toon Seminar 1 Add Wow Factor to Your Wildlife Images

Saturday 15 October, Aperture Theatre, 11am There are few shortcuts to capturing consistently great wildlife images — it takes preparation, patience and perspiration - but there are ways to add that winning bit of magic to your work. Ann and Steve reveal their tried-and-tested tips and techniques for success.

Ann and Steve Toon Seminar 2 Eyes on the Wild

Saturday 15 October, Aperture Theatre, 2pm



Ann and Steve explain their mission to celebrate the beauty of the natural world through their cameras, and communicate its untold stories, which has taken them to some of the world's photographic hotspots.

Tim Wallace



Tim Wallace Seminar 1 Inspired Business

Saturday 15 October, Focal Point Theatre, 10.30am Tim looks at the kind of work he built his business model on and then takes you through the processes of building up a photography business. He also looks at positioning yourself within your chosen industry. Visitors will learn to think laterally about their brand and direction, style of work and industry sector – and how to adapt your approach, depending on the client.

Tim Wallace Seminar 2 **Building a Commercial Portfolio**

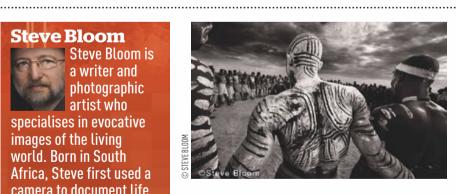
Saturday 15 October, Focal Point Theatre, 1.30pm Tim will be going through the lessons he has learned over the past ten years and also answering questions such as 'Why should we only have one portfolio?' He will demonstrate how he uses his own work effectively, and passes on some hints and tips on how to get your portfolio working for you.

Steve Bloom



Steve Bloom is a writer and photographic artist who

specialises in evocative images of the living world. Born in South Africa, Steve first used a camera to document life in South Africa during the apartheid years. When he moved to England he co-founded one of London's leading photographic special effects companies. He has won international awards for his work, as well as being published in numerous publications.

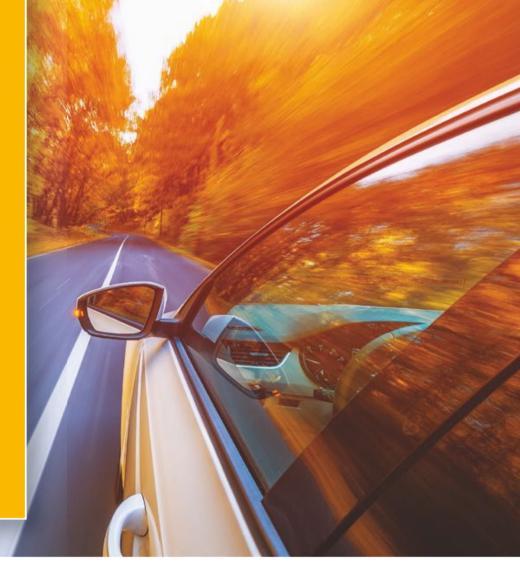


Steve Bloom Seminar 1 Living Africa

Sunday 16 October, Focal Point Theatre, 12pm and 3pm (same talk)

Join best-selling author and photographer Steve as he journeys through the essence and diversity of Africa. Hear the stories behind the creation of his books Living Africa, Elephant! and Trading Places: The Merchants of Nairobi. Steve shares with the audience this extraordinary continent: from the desert landscapes and dynamic wildlife to remote village life.





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Making. MaglC Manually

Despite autofocus technologies, manual focus remains an important feature in photography.

Matt Golowczynski looks at how best to use this tool

owadays, it seems like almost every new camera arrives with the promise of the world's fastest autofocus for its class, which is understandable given how critical this feature is to a camera's overall performance. Yet manufacturers haven't overlooked the development of manual-focusing systems, with the feature gaining prominence across enthusiast and professional models.

Manual focus can be used to circumvent the weaknesses of modern autofocus systems or issues when using even advanced systems in particular conditions, such as bright sunlight, poorly lit scenes or when capturing subjects that contain fine, repetitive detail – or not enough of it.



There are many more reasons why it continues to be used today. The success of compact system (mirrorless) camera lines, for example, and the availability of various adapters have sparked a resurgence in the popularity of older optics that lack their own focusing motors. Moreover, with high-quality video recording now a prominent feature in many cameras, manual focus is needed for complete control in situations where it is not desirable to place one's faith entirely in one autofocus system or when using lenses developed for one system on another.

Despite its usefulness, there are a number of reasons why using manual focus may fail to produce the desired result – from differences in manufacturing tolerances and maladjustment of parts to the use of inappropriate technique. The following pages examine various techniques that will help you achieve best focus when working manually.

Technique Manual Focus

Manual focusing with DSLRs

Manual focus is performed on DSLRs in much the same way as it was on film bodies – through a simple rotation of a lens's focusing ring. Today this can be controlled with far greater accuracy than before, although the design of today's DSLRs presents a few problems. One of these involves the standard focusing screens used in DSLRs and the effect they have on the viewfinder. As it's assumed that autofocus will be used in the majority of situations, DSLRs come with a plain focusing screen that's optimised to keep the viewfinder image bright even with slower lenses, while channelling enough light to the AF sensor to perform autofocus.

Thus, DSLRs cannot display an image through the viewfinder that shows the true depth of field at particularly wide apertures, and will instead display a depth of field at a slightly smaller one, such as f/2.8 - even when you're using a lens with a wider maximum aperture. Not being able to exactly assess depth of field at wide apertures obviously affects your ability to accurately focus. Such assessment is difficult enough because of the potential for very shallow depth of field at wide apertures. One way around this is to replace the default focusing screen with an alternative, such as a screen designed with a split-screen indicator and microprism. This will provide you with an accurate idea of depth of field at such apertures to help you manually focus with accuracy, although the penalty will be decreased brightness in the viewfinder.

Other potential complications

Modern cameras typically focus using a lens's widest aperture, only stopping down to the selected aperture before the image is taken. This creates two issues. First, even when using smaller apertures, the image you see through the viewfinder does not display the depth of field that will result in the final image. You can engage your camera's depth-of-field preview function as you focus, although your viewfinder will darken with smaller apertures.

Then, spherical aberration, which can be problematic in wide-aperture lenses, can result in the best point of focus moving slightly between apertures. Here, the main concerns are the difference between where the image is formed at the aperture used for focusing and the aperture used to capture the image, assuming it is smaller. Too great a shift between these can mean the focus isn't in the optimum position at the time of capture.

Other issues mostly stem from differences in the performance of individual components (the lens, focusing screen, viewfinder, mirror, and so on), as well as any issues from using these in combination with one another. Your camera's focusing screen or mirror could be misaligned, for example, or damaged. Or your viewfinder's dioptre may not be set at the best point for your eyesight.

All of the above should make the advantages of focusing using live view obvious. By removing the viewfinder, focusing screen and mirror from the equation, any room for error is lessened, while the ability to view the scene at a larger size and with greater brightness and clarity than the viewfinder gives you a better idea of where you are focusing.

In live view, focusing uses the actual image projected onto the sensor by the lens, making it inherently more accurate than the phase-detect AF systems on DSLRs. It may also provide you with the option of magnifying into the scene for clarity. DSLRs are also beginning to offer focus-peaking options, although this does not feature as widely as on mirrorless models (explained on page 40).

Using live-view focusing to get manual focus right every time

1 Set up your camera correctly

EVEN before you activate your camera's live-view function, it's worth thinking about how you will trigger the shot you wish to take, so that you can inculcate a few best practices first. For instance, you are likely to be using your camera when mounted on a tripod, in which case you should disable your camera's (or lens's) image-stabilisation system. The image-stabilisation system can create a cycle of vibrations and vibration correction that can compromise the image's sharpness. You may not need to do this if you know for certain that the camera or lens has an effective means of automatically detecting that it's being used with a tripod. For better sharpness, you should either attach a remote release to your camera or set it to recognise that a wireless option is used, if you have one. If you don't, set the camera to an appropriate self-timer option.



WHEN TO USE MANUAL FOCUS ON YOUR DSLR



Fireworks

The fleeting nature of fireworks makes them poor candidates for autofocus. When shooting fireworks, you will likely want to focus to a desired point before using manual focus to take the picture.



Shooting through obstructions

When shooting through a fence, railing or window, or when subjects pass between the camera and intended subjects, autofocus systems can become confused. Manual focus is also useful when focusing on window details.



Macro

Manual focus is particularly important when shooting close up, as any small focusing inaccuracies can mean a subject's focal point (an insect's eye, for example) isn't as sharp as the secondary areas.

2 Check aperture changes

Turn on your camera's live-view option. Even though you can adjust aperture while using live view, it doesn't mean the aperture physically changes, which can affect depth of field. Another way to view aperture changes is to look through the lens and see if the diaphragm changes size. On cameras that do not adjust aperture in live view, there may be the option of checking depth of field with a specific control.



4 Go manual and zoom

Switch to manual focus. Your camera may provide 5x and 10x options or even higher zooms, or adjustment in finer increments. The choice depends on the subject and how much you need to check the subject's details. Turn the focusing ring slowly until the subject is in focus. Very slightly, move your focus back and forth a few times to ensure accurate focusing.



3 Frame your image

To help frame your image, you may wish to use the autofocus system to get a rough approximation of focus. Depending on what you're shooting, composing could be easier with a grid superimposed over the scene, or an electronic level if your camera has one. Also, adjust exposure settings to suit the scene.



5 Check depth of field and release the shutter

If you know your camera isn't physically adjusting the aperture as you change magnification, make sure there's some way of checking depth of field accurately, and move around the scene using your camera's directional controls if necessary. Zoom in to your chosen subject to check any adjustments.



Visual notifications

on camera

AS WITH certain film bodies, it's often possible to use manual focus on a DSLR in combination with visual notifications that focus has been achieved. This is typically the same focus confirmation light that's active when using autofocus. These notifications usually appear alongside the exposure information in your camera's viewfinder. As this feature makes use of your camera's phase-detect autofocus system, it stands to be affected by any autofocus microadjustment you may have previously performed when checking the image. Therefore, it's important to make sure that the AF microadjustment is correctly adjusted or disabled.





Panning

Although advanced AF systems can be used to pan many subjects, you can also fix the focusing distance manually beforehand. With this technique, you should ensure the subject remains within the focused area determined by your depth of field.



Light trails

Autofocus is less useful when looking to capture light trails from traffic, unless you can focus on an appropriate fixed point in the scene. In such cases, manual focus, potentially in conjunction with hyperfocal focusing, is a common alternative.



Infrared photography

Infrared rays form an image at a plane beyond that of the visible spectrum, which means the focus has to be shifted to this point manually. Older lenses, and a handful of modern ones, may sport red markings on their barrel to facilitate this.

Technique Manual Focus

Manual focus on mirrorless cameras

The arrival of mirrorless cameras has allowed manufacturers to craft new lens lines with a fresh perspective, both optically and with regard to external controls. The trend has been for control to shift from the lens's barrel to the camera, and although the vast majority of lenses



are still designed with focusing rings, manual focus here usually works in a different manner than that on optics designed for DSLR lines.

Traditionally, focusing rings have had some kind of mechanical coupling to the focusing group. In contrast, most lenses designed for mirrorless cameras work on a principle commonly referred to as 'focus by wire'. Here, turning the focusing ring will instruct the camera to drive the focusing group electronically, with its response and angle of rotation determined by firmware.

Such a set-up usually means there are neither physical stops at either end of the focusing scale, nor any physical markings on the barrel for distance (typically displayed on the camera's viewfinder or rear display). This allows for a simpler lens design, but there can be a minor lag between turning and response. In addition, as the response of the system is often dependent on velocity, it becomes more difficult to pull focus with precision when recording video. For this reason, many videographers will tend to be drawn to mechanically coupled lenses.

Focus peaking

Focus peaking has become a sought-after feature on enthusiast and professional camera bodies, particularly on those intended for video capture (this feature first originated from video cameras). Strictly speaking, focus peaking does not provide an entirely accurate view of what's in focus, but places highlights over details in the scene where edge contrast is highest. The correlation between the two is strong enough for this to be often relied upon as a guide to focus, although how it appears will vary with subject contrast and the lens used, among other things.

Some cameras provide no more than on/off control over this feature, although many recent models have this fleshed out with additional controls. The most common option is control over the colour of the highlight, which you may wish to change to contrast better against your subject. A default white highlight, for example, isn't entirely useful when shooting a predominantly white flower, so a red or yellow option may be preferred.

Another useful but lesser-seen option is the peaking level, which gives you say over the contrast threshold. As a general rule it's useful to increase this level when your scene is high in contrast, or when the lens you're using is particularly sharp, so that the camera only displays the edges that are highest in contrast. If using a lens with an aperture ring, you may also find this useful when shooting at smaller apertures where depth of field may be greater. For the same reason, decreasing it will help you when working with



KEEPING THINGS STEADY

WHEN you're focusing manually, any movement of either the camera or subject can affect your picture. Thus, it's a good idea to mount your camera on a firm support (and trigger the shutter remotely) to reduce the chances of camera shake, and do what you can to keep the subject steady.

Tripods with reversible central columns, such as the Manfrotto 055XPRO3, are ideal for macro photography (one genre in which manual focus is pretty common) as they enable you to switch to a horizontal position and make precise adjustments while shooting at ground level. Focusing rails (also known as micro-positioning plates) are good as they can attach to

your tripod and enable precise positioning with just a touch of the fingertips.

The Manfrotto

055XPR03

a reversible

central column

tripod has

When it comes to keeping your subject steady, less sensitive macro subjects (such as plants) can often be held steady using floristry wire or tied back with string. For a firmer grip consider investing in a Wimberley Plamp II – one end of this flexible arm clamps to the leg of your tripod while the other can be used to hold a windblown object, reflector or backdrop.

Benefits of tethered shooting for MF

The LCD monitor on the back of your camera is perfect for making major adjustments to composition,

but as it only measures 3in or so it's not always the best way to make precise adjustments to focusing. As we've seen, most DSLRs now allow you to select a small area and magnify it on-screen, but when you're looking for super-fine adjustments use an external device, such as a laptop or tablet, and take advantage of the larger screen.

Controlling your camera via an external device has many benefits, aside from the improved screen size. If you're shooting an especially flighty subject (such as a butterfly, for example), it enables you to keep further back, minimising any disturbance. What's more, you can perform adjustments to many frequently used camera settings (including aperture, shutter speed, ISO, and so on) without physically touching the camera – this will inevitably reduce camera shake.

low-contrast subjects and wider apertures, and when using older lenses that may optically lack the bite of more modern designs.

Magnified view

The most accurate method to assess focus is to magnify into the part of the scene that you want to render sharply before manually adjusting your focus; this will give you the clearest idea of what the sensor will capture. Many mirrorless cameras automatically do this as you begin to adjust the focusing ring when using manual focus, jumping back to the original composition once you have finished doing so. Those cameras that

don't do this may have the option of being set up in this way.

Alternatively, you may be able to magnify into the scene using your

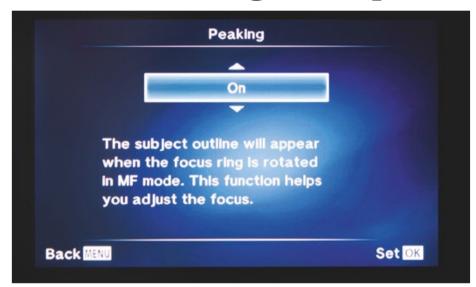


To assess focus, magnify part of the scene

camera's zoom-in and zoom-out controls, although you may find that at extreme magnifications the feed becomes less stable and harder to use, particularly if your camera doesn't have some kind of image-stabilisation system.

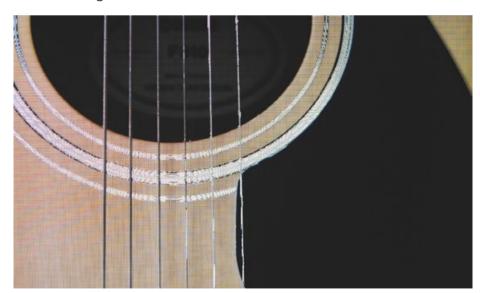
On some cameras it is possible to use this in conjunction with focus peaking, which can give an even better idea of what is and isn't in focus. You may find this feature useful when the subject is at a distance, perhaps when using a wideangle lens where the magnification will render the subject much smaller than if it were captured closer to the camera, or in very bright conditions where the screen may be more difficult to view.

Guide to using focus peaking



1 Enable focus peaking

First, find the focus-peaking option in your camera's menu system, bearing in mind that this may be under a general heading with other manual focus-assist options. If you have control over the colour, choose one that contrasts with your subject, and adjust the peaking level if you feel the need to. If you're not sure whether to adjust this, leave it on the default setting.



3 Focus using peaking

Now is the time to fine-tune your focus. Switch to manual focus if you haven't already and move the focusing ring slightly to see where the highlight appears. You want this to be at its maximum level over the key element in the scene. If your subject covers a range of distances, ensure that your depth of field is wide enough to render it entirely in focus.



2 Compose your image

Now find an approximate focus so that you can compose your image. As with the previous method you can do this with autofocus initially, before switching to manual focus, or you can simply do it with manual focus to begin with. If you've chosen to use manual focus, you should already see the focus-peaking function appear — if not, move to the next step.



4 Release the shutter

When you are happy with your focus, release the shutter. For maximum sharpness, consider using a remote release of some kind or your camera's self-timer option. This will reduce camera shake and keep the image sharp.

Evening Class

Photoshop guru Martin Evening sorts out your photo-editing and post-processing problems

Processing an infrared capture

JAMES Duffy shot this photo at Box Hill in Surrey, using a Nikon D50 with a 720nm infrared filter attached to its lens. Such filters enable you to shoot in infrared with any camera, but you do lose a few stops in exposure so, to compensate, you'd need to increase the exposure or the

ISO. The 720nm filter is a good compromise for users seeking a typical infrared effect where the foliage in a scene appears white. This image was taken in February, so there wasn't much live foliage and the infrared effect is rather subtle. Even so, the composition worked well.

Submit your images

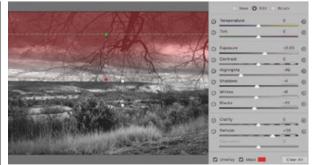
Please see the 'Send us your pictures' section on page 3 for details or visit www.amateur photographer.co.uk





1 Convert to black & white

I opened the raw image in Camera Raw, where I went to the HSL/Grayscale panel and clicked on Convert to Grayscale. I then went to the Basic panel and made tiny adjustments to the Highlights, Shadows, Whites and Blacks sliders. The aim was to compress the tone range as a starting point for further adjustments.



2 Add graduated filters

I added a Graduated Filter adjustment to the bottom half of the image, where I made +23 Clarity and +69 Dehaze adjustments. This added more tone separation to the image. I then added a second Graduated Filter adjustment to the sky where I darkened the Exposure and Highlights and applied a lesser amount of Dehaze.



3 Adjust the black & white sliders

Finally, I went to the Split Toning panel and adjusted the Amount and Saturation sliders for the Shadows and Highlights to apply a split-tone effect to the black & white image. I also applied slightly different hue colour and saturation values to the shadows and highlights.



Adding rich colour contrast

IN THIS image, Jim Young has captured the shadow of a passing cyclist as it is projected against a rough brick wall. The viewpoint for this photo is remarkably uncluttered and it is a nice simple composition there is just a cobblestoned street and the texture of the bricks. Cropping out the corner simplified the composition to draw the eye mainly to the shadow of the cyclist. One could remove the hole in the wall at the top of the frame, but leaving it in helped to emphasise the distressed state of the wall. While the original raw image shows what the scene probably looked like at the time of capture, the processed version shows how this image could be enhanced by adding rich colour contrast.



1 Crop the image

To start with, I selected the Crop tool and applied the crop shown here to remove the wall corner on the right. In the Basic panel I adjusted the tone sliders to add more global contrast. I then dragged the Highlights and Whites sliders to the right and the Shadows slider and Blacks slider to the right. This also added more tone contrast.



2 Adjust the Tone Curve

In the Tone Curve panel I adjusted the Highlights, Lights and Darks sliders to create the tone curve shape shown here, which lightened the lighter portions of the image and added a further contrast kick to the midtone and highlight section where the curve was steepest. I also used the tone range split point sliders to fine-tune the curve shape.



3 Add a Graduated Filter effect

I added a Graduated Filter adjustment to the lower section of the photograph, where I added a +0.65 Exposure adjustment and a +11 Shadows adjustment to lighten the bottom section of the image. This added more contrast and sparkle to the cobblestones to balance them with the lightness of the bricks.

Contrast adjustments and colour

WHENEVER you adjust the tone contrast in an image, this also affects the colour. Basically, as you add more contrast, or increase the steepness of the tone curve, this has the effect of increasing the colour saturation in the image. When applying a Photoshop Curves adjustment, the hue colour values can shift slightly as well; however, with Lightroom and

Camera Raw there is a built-in hue lock mechanism to prevent this from happening. In Photoshop it is possible to isolate the saturation boost effect by applying a Curves adjustment as an Adjustment layer and changing the blend mode to Luminosity. While this does allow you to accurately preserve the saturation and hue values, the result can end up

looking rather flat – and therefore, a slight increase in saturation will look more natural. The latest version of Phase One's Capture One features a Luminance curve option that lets you fade between a full and zero luminance curve effect. This gives you full control to independently control the tone and colour as you adjust the contrast.





Martin Evening is a noted expert in both photography and digital imaging. He is well known in London for his fashion and beauty work, for which he has won several awards. Martin has worked with the Adobe Photoshop and Adobe Lightroom engineering teams over many years and is one of the founding members of a software design company. Visit **www.martinevening.com**

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Accessories

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Manfrotto Off Road Stunt Backpack Hiking pole holder

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Matt Golowczynski looks at a backpack aimed at the adventure seeker

At a glance

- Holds one CSC/lens combination, three action cameras and a 12.9in tablet
- Integrated action-camera mount
- Included waterproof cover

MANFROTTO'S Stunt range is headed by this backpack – a lightweight, medium-sized nylon bag with an unconventional design. Unzipping its lid around its sides reveals a spacious inner compartment, which eschews the standard removable dividers for two removable pouches one for a CSC/lens combination and another for up to three action cameras.

The main chamber contains a sleeve for a tablet and a generously proportioned mesh pocket against one of its walls. Through two wide-looped zips, the bag's contents can be accessed quickly from the top, although the main chamber opens fully in a butterfly-like fashion when the central zip is pulled down. The lid has a soft-lined pocket, and two more pockets at the side of the bag provide space for a small tripod, while an adjustable GoPro mount is positioned on one of the straps.

The shortness of the shoulder straps means the bag mounts in a somewhat top-heavy manner, although full adjustment over the chest, waist and shoulder straps allow you to tailor it to your body. But the nature of the zipped, removable pouches makes accessing their contents time consuming. I found it useful to place one pouch at the very top of the bag for quick access, and the other for lesser-used items further down.

While the pouch method of storage may put some off, the bag does provide decent flexibility and a reasonable level of protection.



ALSO CONSIDER

Thule Legend GoPro Backpack

£130, www.thule.com/en

This alternative bag also holds three action cameras (here in a crushproof compartment) and features two GoPro mounts.



Incase Sling Pack

canister that

accepts

two GoPro

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£119.95, www.goincase.co.uk

This sling option is designed with a faux fur-lined tablet compartment, as well as a Tensaerlite

Tenba Shootout ActionPack 14L

£139, www.macgroupeu.com There's space for up to four action cameras and accessories, and a hydration chamber, in this option from Tenba.



Barber Shop Razor Cut Leather Wrist Strap



ITALIAN company Barber Shop specialises in real-leather camera bags, straps and accessories, with unusually stylish and high-quality designs. Its Razor Cut wrist strap is an elegant means of securing your camera if you prefer not to use a neck strap.

The design is fairly straightforward, consisting of a wide leather strap lined with soft microfibre material, which loops around onto itself using a metal D-ring. This wraps loosely around your wrist in normal use, but if you accidentally let go of the camera, the strap pulls through and tightens, hopefully saving your kit from a costly fall.

The strap clips onto your camera's lug using a chunky metal carabiner, with a large protective leather pad beneath to protect the camera body from scratching. If your camera has slot-type lugs, the idea is to attach the strap using a sewn-in loop of red, white and blue-striped material, which passes through the lug then clips onto the carabiner. While this approach does work, I'd be decidedly nervous about trusting a heavy DSLR to this slim loop of ribbon.

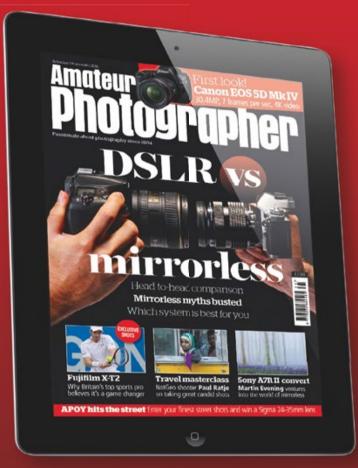
Indeed, having tried the Razor Cut strap on a range of cameras, I found it only really worked well with larger enthusiast models that have decent size handgrips and eyelet-type lugs — essentially cameras such as the Nikon D7200, Pentax K-1 or Sony Alpha 7 II. On smaller cameras such as the Olympus OM–D E–M5 II or Fujifilm X–T1, it's just too bulky to be comfortable to use, and the pad that protects the camera gets in the way of your grip.

Available in four finishes – black, brown, perforated dark brown and a rather questionable calf-hair option – the Razor Cut strap is made of



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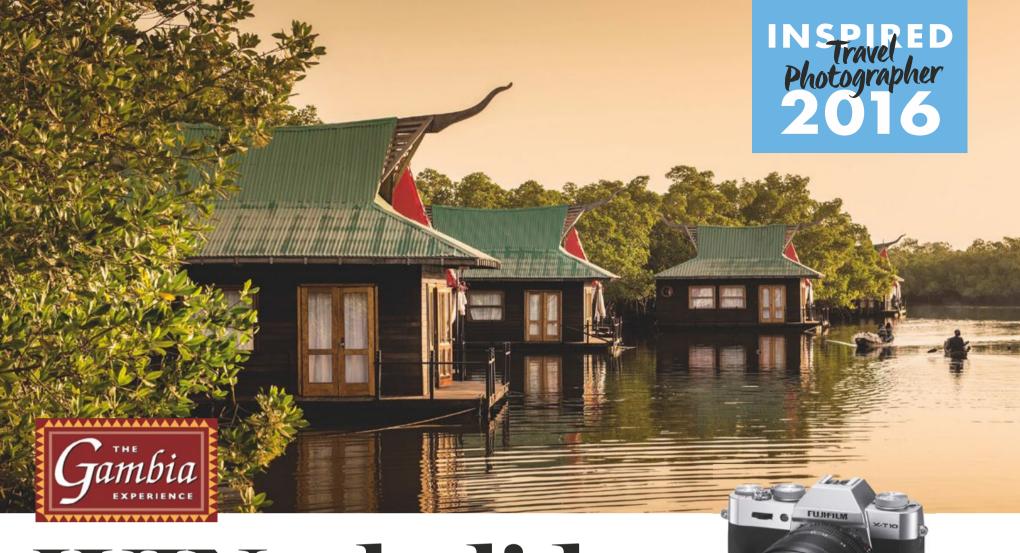
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AP AND Lonely Planet Traveller magazine have joined forces to offer one lucky reader the chance to win a seven-night holiday for two to The Gambia in our Inspired Travel Photographer 2016 competition. And that's not all – we also have a Fujifilm X-T10 for each of the three category winners.

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3 Nature and wildlife

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Closing date 30 November 2016. Full terms and conditions online









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ourself abargain **Michael Topham** goes

in search of the best lenses money can buy with £200 to spend

f there's one thing we can all relate to when we're shopping, it's the satisfaction of picking up a bargain. Spending less than the original asking price on kit can be very satisfying, and it makes the effort that goes into finding a bargain worthwhile. If you're

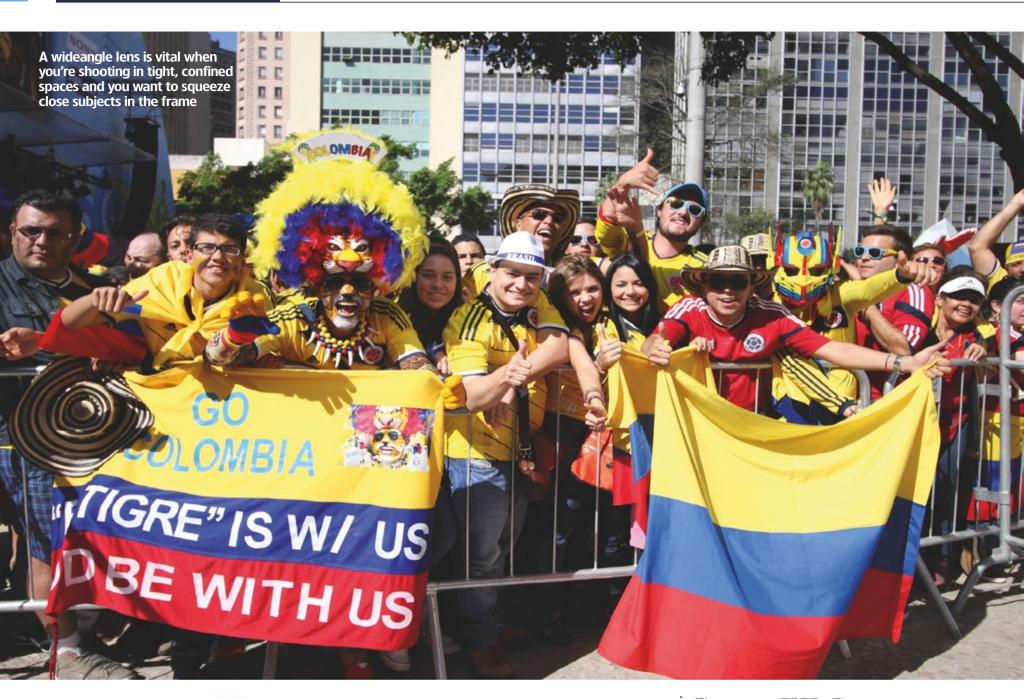
prepared to have a look around, it doesn't take long to realise that not all lenses cost hundreds of pounds. In fact, there are numerous examples of interesting optics that can be picked up in brand-new condition for less than you'd expect.

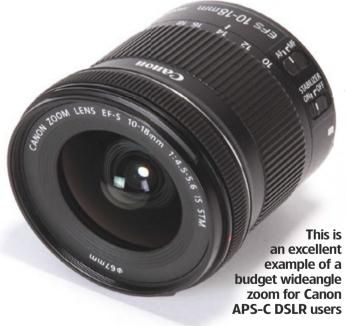
There's a misconception by photographers that sub-£200 lenses should be avoided because they are too cheap to be any good. However, this certainly isn't the case, and provided you know what you're looking for there are some fantastic bargains to be had.

what would we be prepared to spend our hard-earned cash on? A trawl of the internet produced a shortlist of more than 40 lenses that can be bought new for less than £200. After whittling our shortlist down, we've assembled 12 lenses that stand out, either for being highly regarded in terms of image quality or for offering great value or something slightly different.

In the cases where one manufacturer offers more than one great lens under £200, we've recommended a few alternatives that you may primarily focuses on new lenses that you can buy on a budget, don't forget there are many excellent lenses available for great prices second-hand. Just be aware that some deals so we'd always recommend inspecting detailed photographs before you commit.







Canon EF-S 10-18mm f/4.5-5.6 IS STM

• £179 www.canon.co.uk

IF YOU own a Canon APS-C DSLR such as the EOS 760D or EOS 80D, and find it a struggle at times to contain everything that's in front of you in the frame, you'll want the option of being able to pluck a wideangle lens from your kitbag. Canon's lightweight 10-18mm zoom

(equivalent to 16-30mm) comes with a number of attractive features, including 4-stop optical image stabilisation system and a stepper motor (STM) that allows it to focus silently and not disturb audio during movie recording. Weighing just 240g, the light weight of this lens means it avoids the top-heavy feeling one gets when using more cumbersome lenses on entry-level DSLRs. Also, landscape shooters will appreciate that focusing takes place internally, so turning the focus ring will not affect any graduated ND filters or polarisers mounted to the front.

Typically for this kind of lens, the 10–18mm zoom shows visible barrel distortion at its widest focal length, although it's not at all excessive. The relatively simple profile also makes it easy to fix. It reduces progressively on zooming in, and at 18mm there's barely any distortion at all. Taking price and performance into account, this is a great walk-around lens for the owner of any Canon APS-C camera who is interested in photographing landscapes, interiors or cityscape images. At such a competitive price, it's hard to think of a reason not to include this in your lens collection if you're looking to expand.

ALSO CONSIDER

Canon EF 50mm f/1.8 STM. £97

Canon EF-S 24mm f/2.8 STM

£125 www.canon.co.uk



The flat profile and fast aperture make the EF-S 24mm f/2.8 STM a great walkabout lens for those who want to travel light and shoot great images

AT ONE time, ultra-slim pancake prime lenses had a reputation for poor optical quality, as they simply couldn't fit in sufficient lens elements to achieve effective correction of aberrations. However, advances in lens design over recent years have changed all that. The EF-S 24mm f/2.8 STM (equivalent to 38mm)



Lensbaby Spark

£59 www.lensbaby.com

LENSBABY is a company that has long made a virtue of using technically flawed optics for selective focus. Its simplest is the Spark - a single-element uncoated glass lens, mounted in a plastic bellows that can be manipulated to move a small area of sharp focus around the frame, blurring everything else. It's fully constructed from plastic, weighs 71g and has a 37mm thread for attaching filters. It's not an easy lens to master - bending, pushing and twisting the lens to achieve the desired result with the camera raised to your eye takes time to get used to, but with some patience you can create interesting blurred effects. It allows you to be more creative and experimental with your photography at very low cost. It's currently available in Nikon and Canon SLR mounts.

ALSO CONSIDER

Lensbaby 5.8mm f/3.5 Circular Fisheye (Micro Four Thirds), £199

provides a wider field of view to a 35mm lens on Canon APS-C DSLRs. Given its compact size, it's understandable that optical image stabilisation is omitted and its slimline design also means there's no bayonet mount for a lens hood – you have to use a screw-in one and attach it via its 52mm filter thread instead. Driven by a stepper motor (STM), autofocus is fast and manual focus is electronically, rather than mechanically, coupled. This means that turning the smoothly damped focus ring drives the AF motor of the lens.

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The build quality of this lens is exemplary for the price. It has a durable metal lens mount and the barrel is made from high-quality plastic. With its f/2.8 aperture, it can give quite nicely blurred backgrounds at close focus distances, and in general the bokeh is reasonably attractive. For beginners, this lens would make an excellent companion to a kit zoom, allowing handheld shooting in low light while keeping shutter speeds up to avoid motion blur. With its bargain price, carryeverywhere size and competent image quality performance, the Canon EF-S 24mm f/2.8 STM deserves to be high on the wish list of many a Canon user.

ALSO CONSIDER

Canon EF 40mm f/2.8 STM, £149



BVWAVNG

Samyang 7.5mm f/3.5 MFT fisheye

£199 www.samyang-lens.co.uk

MICRO Four Thirds users who would like to explore fisheve photography should look at this affordable optic, which provides a diagonal field of view of 180°. With no rear metal contacts, metering is performed using the aperture ring, while focusing is performed manually via its smooth focus ring. Focus distances from infinity to its closest focus distance (9cm) are marked on the barrel, but there's no hyperfocal scale. Manual-focus-only lenses can be an off-putting factor for some users, but with better focusing aids on cameras today, not to mention the expansive depth of field this lens provides, it's not difficult to achieve pin-sharp results. If you can live without AF and want a fisheye lens that's a couple of hundred pounds cheaper, this Samyang lens is worth looking at.

ALSO CONSIDER

Samyang 16mm f/2 ED AS UMC CS (Micro Four Thirds) £199

Fujifilm TCL-X100 **Tele Conversion**

£199 www.fujifilm.co.uk



The TCL-X100 tele conversion lens presents a wide field of view to X100/X100S/X100T users

THIS conversion lens is designed to offer X100, X100S and X100T users something different. It turns the camera's fixed 35mm lens into a 50mm lens and employs an optical construction that's made up of four glass elements in four groups. The clean and stylish

with the all-metal construction giving it a solid and robust feel. The lens widens towards the front and those who regularly find themselves raising the viewfinder to their eye will want to be wary of it obscuring the bottom right of the frame when it's attached. Available in black or silver, the TCL-X100 gives Fujifilm X100/X100S/X100T users the option of capturing different types of images with a narrower angle of view and sits alongside the WCL-X100 wide conversion lens (£210) that turns the fixed 35mm lens into a 28mm wideangle.

ALSO CONSIDER

Fujifilm X70 WCL-X70 Wide Conversion lens,



Olympus 9mm Fisheye f/8 Body Cap

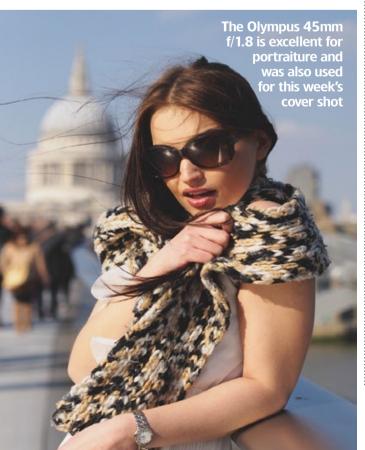
• £67 www.olympus.co.uk

LENSES don't come much more petite than the Olympus 9mm Fisheye f/8 Body Cap lens. As its name suggests, this extremely compact optic is so small and lightweight that it gives the impression you're carrying the camera around without a lens attached. Measuring 12.8mm thick and weighing just 30g, it offers an extremely wide 140° field of view. Due to the fact it has no metal contacts, you may be required to enable the 'shoot without lens' option on your camera before adjusting the plastic lever that's used to focus it manually.

Given the vast depth of field that's achieved with a 9mm fisheye lens, you'll find yourself shooting with the plastic lever set to infinity most of the time – just be careful not to knock it. As lenses go, it's fun to use, slips into a camera bag with ease and is a good option for Micro Four Thirds users who'd like to experiment with fisheye perspectives without having to fork out hundreds of pounds.

ALSO CONSIDER

Olympus M.Zuiko Digital 45mm f/1.8, £179







The tiny 12-32mm f/3.5-5.6 from Panasonic weighs just 70g

Panasonic Lumix G Vario 12-32mm f/3.5-5.6 Asph Mega OIS

• £199 www.panasonic.co.uk

THIS standard lens is often found supplied as part of a kit with Panasonic Micro Four Thirds bodies and made its entrance into the market at the same time as the Lumix DMC-GM1. Since then, we've seen it bundled with other models such as the Lumix DMC-GX80 and it can now be picked up on its own in silver or black for a fraction under £200. Its big appeal is its size, and unlike Panasonic's Lumix G X 14-42mm f/3.5-5.6 Asph Power OIS lens that's noticeably larger and heavier, this tiny optic weighs just 70g and juts out from the lens mount by 24mm when it's collapsed. It's equivalent to a 24-64mm lens on a full-frame camera, performs focus internally to ensure the front doesn't rotate and accepts filters via a 37mm thread at the front. Although it exhibits corner softness at its widest apertures, centre sharpness is very impressive and it does a good job of controlling chromatic aberrations.

As far as its build quality goes, it's made from plastic, yet feels reassuringly well made. There's no dedicated manual-focus ring, but most users will find themselves relying on autofocus, which shows no fuss locking onto subjects fast and accurately. Panasonic users looking for a convenient walkabout lens that's neither too heavy nor cumbersome will love it.

ALSO CONSIDER

Panasonic Lumix G Vario 45-150mm f/4-5.6 Asph Mega OIS, £169



The lightweight 35mm f/2.4 makes a great companion to a kit zoom for Pentax users

Pentax smc DA 35mm f/2.4 AL

£108 www.ricoh-imaging.co.uk

PENTAX users looking for an inexpensive but more than capable fixed-focal-length prime lens with an angle of view that's roughly equivalent to a traditional 50mm standard lens will find this optic extremely appealing. It has a 30cm minimum focusing distance and is constructed of six elements in five groups, with six aperture blades. It features the old-style of autofocus, which is driven by the camera's AF screw, as opposed to featuring a newer type of internal autofocus motor. The downside of this is that it whirs and is quite noisy in use.

The lens delivers an impressive level of sharpness, with its sweet spot being located around f/4. For Pentax users who bought their DSLR with an 18-55mm kit lens, the smc DA 35mm f/2.4 AL makes a sound second choice. Its image quality does outshine its build quality.

ALSO CONSIDER

Pentax smc DA 50mm f/1.8, £82

Nikon AF-S DX **Nikkor 55-200mm** f/4-5.6G ED VR II

• £195 www.nikon.co.uk



This Nikon lens is compact when retracted but extends from its locked position to 55mm and beyond to 200mm



A 'nifty fifty' should find a home in everyone's bag

Nikon AF-S Nikkor 50mm f/1.8G

£169 www.nikon.co.uk

THE so-called 'nifty fifty' is a popular lens for those who'd like to shoot with a similar field of view to that of human vision. Nikon has turned out no fewer than six 50mm f/1.8 lenses since 1978, with this lens being the company's most recent. Unlike the older D-series optics, this G-series model doesn't have an aperture ring and benefits from a Silent Wave Motor (SWM) for fast and silent focusing. It's compatible with Nikon's entry-level DSLRs that don't have an autofocus motor built into the body, such as the D3300 and D5500, and although it's one of the cheapest Nikkor lenses, it doesn't scrimp on build quality. It exhibits a little barrel distortion and vignetting is obvious at its widest apertures, but this isn't too much of a concern and can be easily corrected in post-processing. Whether it's used on a full-frame body or an APS-C DSLR (equivalent to 75mm), the AF-S Nikkor 50mm f/1.8G should find a place in most Nikon users' kit bags. We class it as one of the best lenses you can buy for under £200.

ALSO CONSIDER

Nikon AF-S DX Nikkor 35mm f/1.8G, £159

WHEN it was announced in early 2015, the Nikon AF-S DX Nikkor 55-200mm f/4-5.6G ED VR II hit the market with a recommended retail price of £279. A year and a half later and we've seen the price of this consumer-grade optic drop to just shy of £200. Its popularity lies with those who outgrow the 18-55mm kit lens that comes bundled with many Nikon APS-C DSLRs, and it meets the promise of delivering extra reach to photographers who want to get closer to distant subjects.

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This lens has a built-in autofocus motor and features Nikon's Vibration Reduction (VR) II system, enabling users to shoot handheld shots 4 stops slower than would otherwise be possible. It extends considerably upon zooming from its retracted locked position to 55mm and beyond to 200mm. It should also be noted that it's not the fastest focusing lens and the filter thread does rotate during focusing, which ultimately makes it more challenging to use with any filters or adapters.

ALSO CONSIDER

Nikon AF-S DX Micro-Nikkor 40mm f/2.8G,



Sigma 60mm f/2.8 DN A

£119 www.sigma-imaging-uk.com

THIS diminutive optic sits beside Sigma's 19mm f/2.8 DN | A (£119) and 30mm f/2.8 DN | A ($\S119$) lenses, and is designed for those who'd like a fast prime with an equivalent angle of view of 120mm on the Micro Four Thirds system and 90mm on the E-mount system. It

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falls into Sigma's 'Art' line of lenses and features a linear focusing system, which delivers a reliable autofocus performance. There is a slightly alarming rattle when the camera is switched off and when it isn't coupled to a camera, but this is typical for the type of focusing system used and shouldn't be a concern.

It's a lightweight lens (190g) that complements the compact dimensions of smaller CSCs and delivers sensational sharpness in the centre at f/2.8. The best edge-to-edge sharpness, or sweet spot as it's also known, is located closer to f/5.6. The combination of a metal and high-quality plastic construction makes it feel more expensive than it is, and Micro Four Thirds and Sony E-mount users after an inexpensive telephoto prime that's complementary to the subject of portraiture should look no further.

ALSO CONSIDER

Sigma 30mm f/2.8 DN | A (Micro Four Thirds), £119

Tamron 18-200mm f/3.5-6.3 Di II VC

£168 www.intro2020.co.uk

SUPERZOOMS are often considered ideal lenses for travel photography and they're perfect for the times when you're looking to maximise shooting time and minimise the wasted seconds spent changing lenses between shots. The most important feature of this Tamron lens is its broad zoom range, which is equivalent to 28-300mm in 35mm full-frame terms. The optical formula of 16 elements in 14 groups includes one hybrid aspherical element and one low-dispersion glass element to reduce aberrations. Other superzooms tend to use more special elements, and this undoubtedly helps explain the Tamron's low cost. Optical image stabilisation is built in and an internal focusing mechanism means the 62mm filter thread doesn't rotate, simplifying the use of ND and polarising filters.

superzoom. It is sharpest at wideangle, especially in the centre of the frame, and gets

progressively softer as you zoom in, with little in the way of really fine detail at longer telephoto settings. There's also fairly strong barrel distortion at wideangle, turning to pincushion across most of the remainder of the range. Despite its bargain price, this lens doesn't make too many concessions compared with its more expensive peers. If you're prepared to shoot in raw and post-process away evident flaws. images will look just fine, unless you like to print large or scrutinise them for pixel-level detail. You'd no doubt get technically better files by using two shorter-range zooms, but if, in practice, you don't have the inclination to change lenses between shots, the point is moot: getting a shot that's not especially sharp at 200mm beats not getting one at all.





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Testbench

SAMYANG

Distance scales

Most manual-focus lenses include distance and depth of field scales to help with focusing.

Take manual montrol

Why would you choose to use manual-focus lenses? **Andy Westlake** looks at the advantages and examines various manual-focus brands on the market

Compact size

Loxia 2/35 515768 5 A

Manual-focus lenses can often be made smaller than similarly specified autofocus designs.

nce upon a time, focusing was a real problem in photography. With unsharp, out-of-focus images usually consigned straight to the dustbin, various ingenious mechanisms were invented to help photographers make sure they weren't wasting film. More experienced readers will fondly remember optical rangefinders, ground-glass focus screens and split prisms with microprism collars. All were designed to ensure that the image the lens projected onto the film would be properly sharp, and all required some skill and experience on the part of the photographer for them to be used correctly.

Then came autofocus. Like all new technologies, various ideas flourished briefly and then got lost by the wayside, such as active ultrasonic or infrared focusing systems. Film cameras finally settled on passive phase-detection measurements before digital brought us contrast-detection and various hybrid methods. Now, most people carry a camera all the time that can identify and focus on a subject far more reliably than any film camera of old – and it's built into a

'Manual-focus lenses can be made sharper, or as they are simpler, they can be cheaper – or even both'

device that's notionally a telephone. Indeed, AF has now got so good that various recent systems to allow refocusing after the event, such as Lytro's light field cameras and Panasonic's 4K post focus, all seem to have missed the boat – it's a solved problem.

So with that in mind, why would anybody choose to buy a manual-focus lens? With DSLRs that can keep track of speeding racing cars and mirrorless marvels that can identify and focus not just on your subjects' faces, but specifically their eyes, isn't it just being wilfully awkward?

The manual focus advantage

As it happens, there are still good reasons to buy manual-focus lenses. The first are to do with the technical constraints autofocus places on lens design. Photographers demand autofocus to be fast, accurate and quiet, and in practice this means lenses have to use relatively small, lightweight focus groups that can be driven quickly into position by a built-in motor. Not only does this hugely increase the mechanical complexity, but it can also compromise absolute sharpness. Manual-focus lenses, however, have no such constraints. So they can be made sharper, or, as they are simpler, they can be cheaper — or even both at once.

The second main reason isn't technical, but aesthetic. By racking a lens through it's range of focus while observing the subject in the viewfinder, the photographer gets to choose what looks best, rather than the camera, and sometimes that may produce an unexpected image. Indeed, as the celebrated Victorian photographer Julia Margaret Cameron once said of her distinctive style: 'When focusing and coming to something which, to my eye, was very beautiful, I stopped there instead of screwing on the lens to the more definite focus which all other photographers insist upon.'

With this in mind, over the next two pages I'll round up the various manual-focus lens brands on the market. I'll be specifically concentrating on lenses for stills photography, rather than those made with video predominantly in mind. Alongside familiar names such as Zeiss and Samyang, I'll also be covering up-and-coming brands including Irix and Laowa. This isn't a list of specific lenses - instead, it's intended more as an introduction and a starting point for further research.

Irix

www.irixlens.com

SWISS-BASED Irix is a young company that unveiled its first products earlier this year. At the moment it's offering only a 15mm f/2.4 full-frame wideangle, but unusually in two different versions with identical optics, called Blackstone and Firefly. The cheaper Firefly uses lightweight plastic construction with a rubber focusing ring, while the Blackstone has a premium magnesium–alloy barrel with an anti–scratch finish, engraved markings

that use fluorescent paint for visibility in low light and better weather sealing. Both lenses come in Canon, Nikon and Pentax mounts, and offer fully automated aperture control from the camera.

Shared features include a proper depth of field scale, an infrared focusing mark, a rear holder for gel filters and a lens hood with a sliding window to allow easier use of polarising filters. Most unusual, though, is a focus-lock ring, which you could use to fix

focus at the hyperfocal distance for landscape work, for example. There's even the ability to calibrate the focus ring for the very best accuracy. All these features show real attention to detail and an appreciation of what photographers actually need. Irix is clearly a company to watch, and we're looking forward to seeing more products that are expected to emerge at the Photokina trade fair this month.

This 15mm f/2.4 is the first in the Irix line, and has just started shipping

Samyang

www.samyanglensglobal.com

OVER the past five or six years, Samyang has built up a strong reputation for making optically excellent manual-focus prime lenses at keen prices. Some of its lenses are optimised for full-frame DSLRs, some for APS-C DSLRs and others for APS-C

mirrorless, so it's important to know exactly what you're getting (unfortunately, Samyang's lens-naming scheme doesn't make this clear). It also repackages all its photo lenses into video-friendly barrel designs, with clickless apertures marked in T-stops and geared control rings for use in rig set-ups. Recently, it has launched its first

autofocus lenses, designed for the Sony Alpha 7 range.

fast primes without breaking the bank.

Samyang's DSLR lenses now include automatic aperture setting from the camera and full electronic compatibility, so they are pretty straightforward to use, although with the caveat that most DSLR viewfinder screens aren't very good for focusing manually. In contrast, its lenses for CSCs are rather simpler, with direct aperture setting from an on-lens ring and no electronic communication with the camera. We've certainly been very impressed by those we've tested recently, and they're a great way of experimenting with slightly exotic optics such as fisheyes and

Samyang makes a range of primes with excellent optics and at very competitive prices

Laowa

www.venuslens.net

LAOWA is one the first optical companies from mainland China to start selling lenses to a wider audience. It's concentrated on making optics with unique features, so that it's not in direct competition with moreestablished third-party lens makers. There's a 60mm f/2.8 macro for APS-C that offers twice-life-size 2:1 magnification; a 15mm f/4 macro with 1:1 magnification, alongside a shift function for use with APS-C cameras; and a 105mm f/2.8 Smooth Trans Focus portrait lens

with a built-in apodisation filter for smoothly blurred out-of-focus backgrounds. New in the

line-up is a 12mm f/2.8 Zero-D wideangle prime, which Laowa claims has minimal curvilinear distortion. The lenses

are available in Canon, Nikon, Sony and Pentax SLR mounts, along with Sony E-mount versions aimed at Alpha 7 users.

We've reviewed the first three Laowa lenses and found that they all have something to recommend them, but they have their quirks too. There's no electronic aperture control, and this complicates using them with the optical viewfinders of DSLRs. However, they do work well in live view, and adapt well for use on mirrorless cameras.



Leica

uk.leica-camera.com

LEICA has developed an enviable reputation for the quality of its lenses, and with very good reason, as they are superb both optically and mechanically. While Leica's M-mount manual-focus lenses are designed to be used on its rangefinder cameras, they can also be adapted for use on mirrorless models and are particularly interesting for users of the Sony Alpha 7 range. However, the short registration distance means they can't be used on DSLRs.

Broadly speaking, Leica's lenses can be split into two types. Currently it has nine premium, high-speed optics, and 13 compact lenses with more modest maximum apertures. There's also the unique 16-18-21mm f/4 Tri-Elmar, which in effect is a wideangle zoom with three click-stopped focal-length settings. All its lenses have steep price tags to match their optical quality.

The fast primes, and the

stunning 50mm f/0.95 and 90mm f/2 in particular, can give great results on mirrorless models as they can be focused more reliably using magnified live view, compared to using a rangefinder. However, the wideangle primes tend to be less satisfactory, as they can suffer from smearing and colour-shading effects in the corners of the frame that are difficult to fix in post-processing.



Leica's stunning M-mount lenses can be adapted for use on CSCs

Voigtländer

www.voigtlaender.com

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WHILE Voigtländer is a famous German name, it's now a brand for the Japanese optical specialist Cosina and used for four ranges of manual-focus primes. Alongside a pair of SL-II lenses for Nikon DSLRs (40mm f/2 and 58mm f/1.4), it makes 14 primes in Leica M mount ranging from 10mm to



Voigtländer makes a Nokton range of f/0.95 lenses for Micro Four Thirds

75mm. Three of these (10mm f/5.6, 12m f/5.6 and 15mm f/4.5) are also available in Sony E mount for use on Alpha 7 models, including electronic communication with the camera so that the magnified view can be engaged when the focusing ring is turned.

> Micro Four Thirds users, meanwhile, get a set of four ultra-fast f/0.95 primes, with focal lengths of 10.5mm, 17.5mm, 25mm and 42.5mm. All four of these feature aperture rings that can be switched between clicked modes for photography, and declicked for video.

> In terms of price. Voigtländer occupies the middle ground between Samyang and Laowa's value offerings and premium brands such as Leica and Zeiss. Unfortunately, though, most of the lenses aren't all that easy to find, with just the most popular readily available in the UK.

Zeiss

www.zeiss.co.uk/camera-lenses

ZEISS, like Leica, is one of the oldest names in photography. It mostly makes premium manualfocus primes for full-frame cameras, but also some autofocus designs for mirrorless systems.

Top of the Zeiss range are its no-compromise Otus models, with 28mm f/1.4, 55mm f/1.4 and 85mm f/1.4 lenses currently available. Huge and heavy, these have the kind of optical quality and wide-open sharpness you'd expect from their stratospheric price tags (£2,700-£3,630). More accessible to mere mortals are its Milvus lenses, with focal lengths from 21mm to 100mm and prices from £830-£1,380. These lenses are all made for Canon and Nikon DSLRs only, and provide stunning image quality.

Zeiss also makes a range of ZM primes in M mount, which tend to be more affordable than Leica's own offerings. As usual, these can be used on mirrorless camera via

mount adapters, although again, wideangles may not work so well. However, two ZM lenses, the 35mm f/2 and 50mm f/2, provide the optics for the first two lenses in the Loxia range of manualfocus Sony E-mount primes, and have recently been joined by an all-new 21mm f/2.8. These are all designed to be small and discreet, with aperture rings that can be de-clicked for movie use.



Zeiss's lenses provide stunning image quality at a premium price

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Sigma Mount Converter MC-11 Canon EF-E

Thinking of switching from a Canon DSLR to a Sony Alpha 7-series camera? If you are, the **Sigma MC-11** adapter may have just made things a little easier for you. **John Huxley** puts it to the test

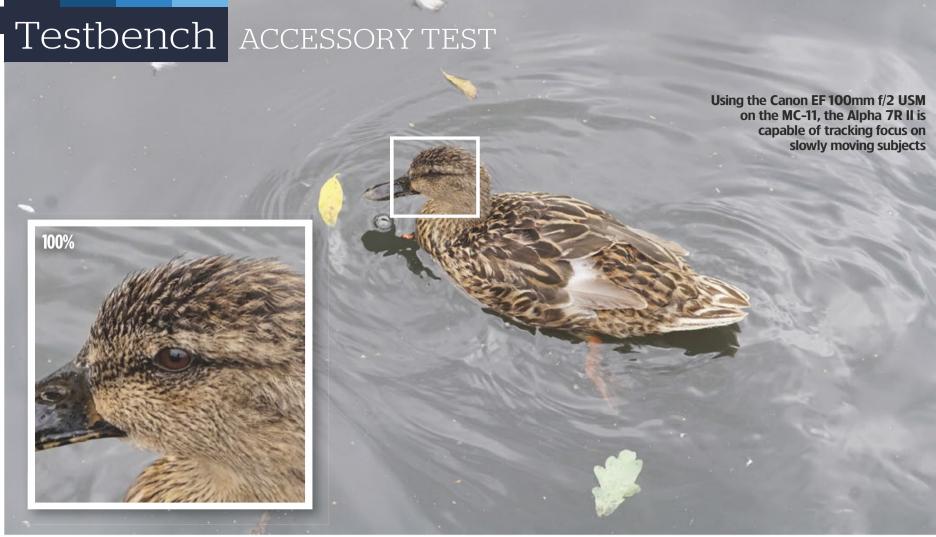
ith class-leading full-frame sensors, excellent video capabilities and a compact design, the Sony Alpha 7 series of cameras has grown from strength to strength in the few years since its release. However, one of the criticisms of the system is its lens line-up. The past year has seen some notable additions to the growing Sony FE lens range, including a 50mm f/1.4, a 24-70mm f/2.8 and a 70-200mm f/2.8, and although most popular focal lengths are now covered, there are still a few gaps. Then there is the cost.

Sony markets itself as a premium brand, and its FE lenses come at a premium price, particularly when compared to Nikon and Canon optics. In fact, one of the many reasons DSLR users state for not switching to the Sony Alpha 7 series is the lens line-up. It can be an expensive affair swapping all that Canon or Nikon glass for the equivalent Sony lenses. Third-party manufacturers have started to take note of this, and Samyang, Zeiss and Voigtländer now make full-frame Sony E-mount lenses. Of course, there is another option, and that is to use a lens adapter to allow DSLR lenses to be mounted on an Alpha 7 camera, but the huge compromise here is that autofocusing will be severely limited, or simply not possible at all. That is, until Sigma announced the MC-11 lens adapter.

Sigma is said to be working on full-frame E-mount lenses, but it has used its knowledge of both the Sony E mount and the Canon EF mount to develop a lens adapter that allows full AF functionality when using current Sigma lenses on Sony E-mount cameras (including the older NEX and Alpha 6000 series, plus, of course, the latest Sony Alpha 7-series cameras). However, to get the most from the adapter and lenses, it is best to combine them with an Alpha 7R II, Alpha 7 II or Sony Alpha 6300, all of which have fast hybrid on-sensor phase-detection autofocus. The promise is that the Sigma lenses should focus just as quickly as a native lens and camera combination.

This isn't the first adapter of this kind, as Metabones offers a similar product. However, at £219 the Sigma MC-11 is much cheaper than the £350 Metabones adapter, and with good distribution channels it should also be easier to get hold of one.

We have previously tested Canon lenses on a Sony Alpha 7R II using the Metabones adapter and found that while it produces acceptable results for general subjects, the results can be a little hit and miss for very fast-moving subjects. Sigma guarantees full AF functionality



with nine of its 35mm full-frame lenses, and a number of its APS-C lenses, but the real question is what happens when you put a lens on it that isn't listed as being compatible? What exactly does happen when you put a Canon lens on the adapter? If the lenses work and focus with accuracy and speed, then one of the final stumbling blocks to stop Canon users switching to Sony may have been overcome.

Build and handling

At first glance there isn't much to see with the Sigma MC-11. There is no glass here, and instead you are essentially buying an electronic adapter tube. But don't be fooled, as there is plenty going on. To start with, there are Canon EF-mount and Sony E-mount electrical contacts at the ends of the adapter. Clever electronic processing takes place inside to convert the camera-lens communications data from a Sony-compatible format to a Canon-compatible format, and vice versa.

It is important to note that the Sigma MC-11 isn't a cheap adapter such as the type that can be purchased on eBay. It is exactly what you would expect from the current Sigma offerings. It feels like a premium-quality product that is well built, and nicely flocked on the inside to prevent internal light reflections. The mounts fit both the camera and lens snugly, with a reassuring click confirming everything is locked properly in place. Importantly, the adapter has a micro USB socket that will allow for its firmware to be updated in the future, to make it compatible with future cameras and lenses.

On the side of the MC-11 is a small LED that indicates the compatibility of the lens you are using. A green light means full compatibility, while a blinking amber light means that the lens is compatible but requires a firmware update. No light at all means that the lens isn't compatible, but exact what 'not compatible' means is what we really wanted to find out.



'It feels like a premium quality product that is well built, and nicely flocked on the inside'

Performance

Sigma provided us with a Canon-mount 50mm f/1.4 DG HSM Art lens to test the MC-11 and overall we were pleased with the performance. This lens isn't the fastest to focus – it has some large, heavy lens elements. However, when mounted via the adapter on a Sony Alpha 7R II, it works as if it were a dedicated Sony FE lens. All the AF modes were available for selection, including continuous AF, focus tracking and face detection. While continuous focusing worked with moderately moving subjects, it wasn't especially fast. It was quick enough to track a walking person, or slowly moving wildlife, but more erratic, faster movements did cause it to lose focus, and sometimes have to hunt to recover.

What about older, non-compatible Sigma lenses? Well, an older Sigma 28-70mm f/2.8 EX DG struggled. Its ageing focusing motor made some slightly disturbing noises and hunted back and forth with some very exaggerated movements. At one point a flashing warning symbol also appeared on the screen of the Alpha 7R II. In this case it is clear that the lens really isn't compatible, and as it is a lens that is about 20 years old this shouldn't be too much of a surprise.

We had slightly more success with a Sigma 17-35mm f/2.8-4 EX DG HSM lens. In Single AF mode set to centre point it was quick to focus on distant subjects, but hunted more for those closer to the camera.

As Sigma can't guarantee compatibility with proprietary Canon lenses, they obviously can't advertise the fact that these lenses work surprisingly well with the MC-11 adapter. Using an older Canon EF 100mm f/2 USM lens I found the performance was excellent. With no official compatibility the LED on the side of the adapter failed to light up, but the lens whirred into life, quickly snapping into focus in single AF mode as fast as it would do on a Canon DSLR, or as if you were using a dedicated Sony lens. There was a bit of hunting in lower-contrast light, but for 90% of users I would say that the performance of this lens would be almost on a par with using the lens on a Canon DSLR.

It was a similar tale when using a first-generation Canon EF 50mm f/1.8. Again, the lens performs some sort of start-up calibration as it whirs through the focus range when you first mount it. After this, the late 80s lens snapped quickly into focus and if you didn't know you could easily think it was a proprietary Sony lens.

When using a Canon EF 70-300mm f/4-5.6 IS USM lens the first thing to note is that the image stabilisation can be heard whirring away and seems to work as expected. The in-camera stabilisation menu of the Alpha 7R II was also greyed out, so Sigma has apparently managed to avoid any conflict between the two systems. I used the lens at 300mm, in single-shot AF mode to photograph a distant heron, and with the Alpha 7R II firing a continuous burst of images the lens had no difficulty focusing, snapping just as quickly as if it were a proprietary set-up. Like the other lenses, it did, on occasion, act a little more sluggishly when photographing subjects closer to the minimum focus distance.

As a matter of interest I mounted the MC-11 adapter on to the original Sony Alpha 7 camera, which only has contrast-detection AF, rather than the phase-detection hybrid system of the Alpha 7R II. Although noticeably slower, the Sigma 50mm f/1.4 DG HSM Art lens focused at a steady speed and very smoothly - it is certainly usable. It wasn't quite the same case for non-compatible lenses. The other lenses would suddenly burst into life, go past the point of focus, shunt back, then creep forward until the precise point of focus was found. Yes, it worked, but in all honesty it would have been quicker to manually focus.

Sadly, we didn't have a Metabones adapter to do a side-by-side comparison to see exactly just what the differences are, but anecdotally I feel that the Sigma adapter reacts quicker and is more consistent in its operation. With the lenses we tried the Sigma adapter isn't perfect. but was close to it with the Sigma 50mm f/1.4 DG HSM Art lens, and with the Canon lenses it offers an acceptable solution.





Our verdict

WITH a working knowledge of both the Canon EF and Sony E mount, Sigma has managed to provide a solution that will enable photographers with Sigma Canonmount lenses to use them on Sony Alpha 7 cameras. But it isn't just Sigma lenses that work, as Canon's own lenses also work almost as if they are native Sony lenses.

Things aren't perfect. As we have seen with the Metabones adapters, continuous autofocusing does provide more of a challenge. Sigma lenses perform adequately for most general uses, while the Canon lenses we tried were a little sluggish, and the older Sigma lenses were virtually unusable, but this is largely down to the slower motors that they employ.

For the vast majority of Canon users thinking of switching to the Sony Alpha 7R II or Alpha 7 II. the Sigma MC-11 adapter should make the switch almost seamless. The caveat is that you shouldn't expect continuous autofocus to work at its full potential, so if your passion is photographing birds in flight, sports or similar fast-moving subjects, you will be better off sticking to either Canon DSLR cameras or Sony lenses. For landscape,

documentary, portrait, and most other types of images, the Sigma MC-11 should be more than adequate.



Compatible Sigma lenses

35mm full-frame	APS-C
24-35mm f/2 DG HSM A	17-70mm f/2.8-4 _{DC}
24-105mm f/4 DG OS HSM A	MACRO OS HSM C
120-300mm f/2.8	18-35mm f/1.8 DC HSM A
DG OS HSM S	18-200mm f/3.5-6.3 DC MACRO OS HSM C
150-600mm f/5-6.3 DG OS HSM S	18-300mm f/3.5-6.3
	DC MACRO OS HSM C
150-600mm f/5-6.3	50-100mm f/1.8 DC HSM A
DG OS HSM C	30mm f/1.4 DC HSM A
20mm f/1.4 DG HSM A	19mm f/2.8 DN A
24mm f/1.4 DG HSM A	30mm f/2.8 DN A
35mm f/1.4 DG HSM A	60mm f/2.8 DN A
50mm f/1.4 DG HSM A	30mm f/1.4 DC DN C

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The image above was photographed 2 stops darker than the brighter, less colourful one (top)

Bleached-out sunsets

I have a Sony Cyber-shot DSC-HX200V camera and I want to take sunset pictures. I have tried all the settings that I thought would be suitable but nothing works – the sunset part of the picture has no colour in it. **Mrs L Thurston**

It sounds like the problem is that the sun is too bright for the camera setting, thus bleaching out the golden tones you are seeking. The solution is to force the camera to underexpose the scene. In theory your Sony HX200V should be able to intelligently recognise the scene type and alter the exposure automatically to suit. Try either Intelligent or Superior auto modes. If this doesn't work, you can try using the camera's exposure compensation adjustment to darken the scene or by using the Photo Creativity mode to do the same. The latter should be able to let you optimise the colour and saturation as well. **Ian Burley**

Printing to the edge

I'm a member of the Bognor Regis U3A Digital Camera Club. Some of our members have inkjet printers that are not capable of printing an image to the edge of A4 print paper. We are now aware some printers have software drivers or a mechanical design that makes this impossible to work around, but when we show our images at club meetings to create a more level playing field we ask members to print to the edge of A4. Do you know of any list of manufacturers and their model numbers, lacking this print ability from today back to 2008 and available to download from the internet? **David Lloyd**

It would be a monumental task to creative a definitive database of the hundreds or thousands of inkjet printer models that have been produced over the past eight years that are certified as being able to print without borders. Some printers do and some don't. while others will when printing certain media sizes - often only 10x15cm (6x4in), for example. The simplest solution would be to allow for some minor trimming to produce borderless prints. Or could the club buy a printer that fitted the bill that all could use? **Ian Burley**

Wobbly video

I have started to experiment with the video mode on my Olympus E-5 DSLR. I am enjoying recording clips of birds on the feeder using my 70–300mm lens. However, I do occasionally verge on feeling seasick as sometimes the result exhibits a rather weird roly–poly wobble effect. Is this normal?

Dan Shipley

Video has been around on still digital cameras for a long time, but the effect you have noticed came to the fore with the proliferation of MOS-type camera sensors. It's officially known as the 'rolling shutter' effect. Traditionally, digital cameras have used CCD (Charged Couple Device) sensors.



The Olympus Trip 35 is a point-and-shoot model with a 40mm f/2.8 lens and just two shutter speeds

Olympus Trip red flag

I have recently inherited an Olympus Trip 35 35mm film camera in good condition, but when I attempt to use it on automatic a red flag appears preventing me from using the shutter. Is this a job for a repairman or is it something I'm doing wrong? **Pat Whelan**

The camera is designed to be used on automatic (A setting) unless you use an attached flash. The red flag in the viewfinder normally indicates that the exposure range has been exceeded; it's either too bright or too dark. If you are sure that you aren't trying to trip the shutter in abnormal light, then it's likely that the selenium meter is faulty. If you feel ambitious you can remove the top-plate of the camera to inspect the mechanism, which consists of a small galvanometer needle moving according to the brightness sensed by the selenium cell. If the needle moves freely then the mechanism it is linked to could be stuck. It may simply need cleaning. Skilled and determined Trip enthusiasts have successfully fixed problems like this. Alternatively, common advice is simply to find a replacement camera that works as they are very inexpensive. **Ian Burley**

With CCDs the most common way to extract a video frame is via a 'global shutter'. The entire contents of the sensor is saved in one action before recording the next frame. With MOS-type sensors, including the LiveMOS-branded sensor in your E-5, it's usual for global shutters to be replaced by 'rolling' shutters. The frame data in a rolling shutter is read off row by row while rows previously read can quickly start recording light once more. A rolling shutter means the sensor

can be more sensitive, but if the data can't be read off the sensor fast enough then action scenes, especially where there are major movement changes, exhibit that wobbling jelly effect.

This unwanted effect has been steadily eroded as MOS sensor designs have improved and much faster data read-out frequencies have been implemented. Unfortunately, there is nothing that can be done to solve this wobble effect.

Ian Burley

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I can't live without...

Stuart Low reveals why the Weston Master V handheld exposure meter is his vital accessory



Stuart has been a landscape photographer for more than 30 years. He is the founder and head judge of the Scottish Landscape Photographer of the Year competition. Visit his website at www.stuartlowphotography.co.uk.

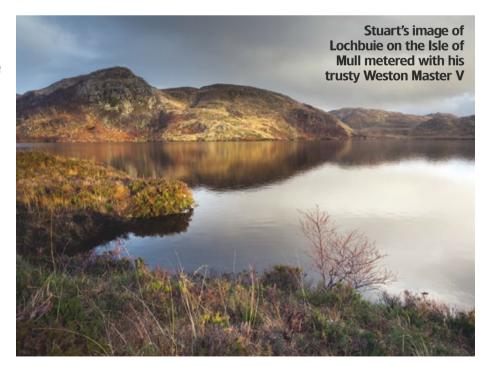
Weston Master V

THE Weston Master V is a classic handheld exposure meter that was produced in Britain from 1963–1972. Stuart has used it for more than 30 years for both digital and film photography.

'I shoot landscapes almost exclusively on film using classic medium and large-format cameras,' says Stuart. 'The cameras I generally use don't have in-built meters, so my Weston exposure meter is a must-have if I am to get an image at all. But even when I shoot digital, I prefer to use my Weston because it provides me with an intimate connection

with the scene that I tend not to get when using a camera with an integrated meter.

'The tendency to stick the camera on a tripod, stand back from the scene and let the camera do the work means an average exposure for the entire scene. For me, this is lazy photography, and ultimately it makes for mediocre images. When I use my Weston, I need to get close to objects around the scene in order to take highlight and shadow readings. When in close, I can smell things and see textures more clearly and this can shape how I want to take



the image. Do I want to bring out detail or close it off, for example? It's also a lot more interesting because you learn an awful lot more about our natural world and that makes for a more interesting photograph.'

FACT FILE

Weston Master V

Price While the Weston Master V meter is no longer made, examples can be picked up on eBay for £10-£25. Stuart recommends buying the separate invercone for incident metering.

Collectable Cameras Simon & Julie Chesterman

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Nikon non Ai 28mm f2.5 Vivitar lens VGC, Excellent quality. £35 Nikon non Ai 28mm f2.5 Vivitar lens VGC, Excellent quality. £35 Nikon non Ai 36mm f1.8 Nikkor I lens. Scalloped, VGC £199 Nikon Speedlight SB-24, in VGC + case SS-24 £25 Olympus Mju 1 AF compact, 35mm f3.5 Zuiko boxed. £29 Olympus OM black real leather ever ready case. VGC. £29 Olympus OM fit 135mm f2.8 Vivitar Macro lens VGC. £129 Olympus OM fit 135mm f2.8 Vivitar Macro lens VGC. £129 Olympus OM fit 135mm f2.8 Vivitar Macro lens VGC. £139 Olympus OM soft case, to suit OM bodies. £12 Olympus OM soft case, to suit OM bodies. £12 Olympus OM Soft case, to suit OM bodies. £12 Olympus OM T32 flash, Nice example, working well. £29 Olympus OM Winder 2. Good condition working well. £29 Olympus OM Vinder 2. Good condition working well. £29 Olympus OM-10 body, a very clean example working well. £29 Olympus OM-2-n, chrome, with 50mm f1.8 Zuiko lens. £29 Panasonic DMC-1-27 digital compact camera, mint boxed. £25 Pentax fit Pentacon Magnifying angle finder. V Nice. £19 Pentax K7 DSLR, with 18-55 SMC Pentax DA lens, boxed. £22 Pentax KA 28-80mm f3.5-4.5 SMC Pentax DA lens, boxed. £22 Pentax KA 35-70mm f3.5-4.5 SMC Pentax DA lens, boxed. £22 Pentax KA 70-210mm f2.8-4 Vivitar Series 1 lens. VGC. £49 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Pentax LX FE-1 Waist Level Magni-Finder. Near Mint. £69 Praktica Byonet Macro Bellows 961 335 /Side Copier 961 350 set. Beautiful quality, mint condition, boxed. £65 Praktica Byonet 1 Rolleinar 2 close up set, lovely. c	
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Praktica / Schneider BX20s, SLR body As New Boxed	Petri Flex fit 28mm f3.5 Petri CC Auto lens. Scalloped£29
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Tech Talk



Professor Newman on...

Determining depth of field

Professor Newman looks at depth of field from the standpoint of what happens in front of the lens

his article is the first of a series of three in which I'll try to develop some common elements of photographic theory considering only that which occurs in front of the lens. The motivation for this is to try to remove much of the technical detail, which often provides dead ends when thinking about the basic photographic principles. In the diagram below the lens aperture or entrance pupil is shown to the right, with diameter A. Emerging from it is the angle of view that is being captured, denoted by Θ . In reality this will be determined by the sensor frame size and the focal length of the lens, but since that happens 'behind' the lens, for this discussion how the angle is affected is irrelevant. For this discussion about depth of field (DoF) we add the blue lines, showing the path of light rays to the extremes of the

'Typically, the circle of confusion is sized to be about 1/1,500th of the image diagonal'

aperture from an object at O, on which we assume the lens is focused. The blue dashed lines show how the rays from an object in front of the plane of focus (denoted by the fine dotted black line) have the appearance of a disc at the plane of focus. Similarly, the blue dotted lines illustrate that the rays from an object behind the plane of focus form a similar disc.

For the purposes of determining DoF, we need to first decide how large a disc we wish to allow as a 'point'. Normal DoF theory calls this the 'circle of confusion', but its position is at the image plane, not the plane of focus. Following Harold Merklinger's (of *The Ins and Outs of Focus* fame) lead, I will call its conjugate at the plane of focus the 'disc of confusion'. The most

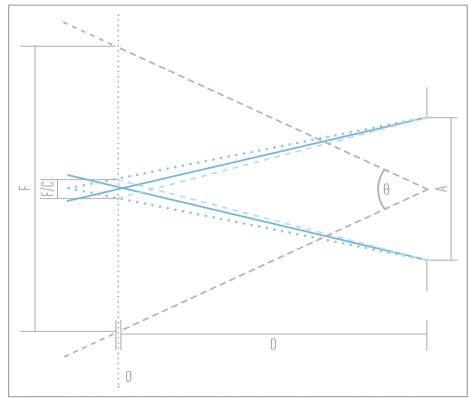
sensible way to define the size of this disc is relative to the field of view – that is, how large it will appear in the final image. Typically, the circle of confusion is sized to be about 1/1,500th of the image diagonal, so we might choose the disc of confusion to be a similar proportion of the field of view.

The advantage of this way of going about DoF is that it is no longer necessary to choose a circle of confusion appropriate to sensor size and intended viewing size – instead ,we simply choose, as a proportion of the final image, what we will consider to be sharp enough. Further, it dispels the mistaken view that DoF is to do with what happens behind the lens and makes it completely format independent. All that is necessary is to know the angle of view and the aperture diameter.

For the more technically inclined, we can now derive the DoF equations using this 'in front of camera' perspective. Using the usual distant object approximations and the laws of similar triangles, we can derive the following:

For a point of focus at distance D from the aperture and a disc of confusion which is a fraction of the field of view C, then the extent of DoF in front of the plane of focus is D/ (CA/2 $\tan\theta$ +1) while the extent behind is D/ (CA/2tan0-1). While I'm not expecting people to replace the traditional DoF formula with these, it is interesting that they can be derived with no reference to what occurs behind the aperture, so in this form the DoF is format independent. All that is required is to decide what proportion of the field of view is allowable as a 'disc of confusion'.

'In front of camera' view of depth of field



Objects slightly behind or in front of the plane of focus, as indicated by the dotted and dashed blue lines, will be acceptably sharp in print

Bob Newman is currently Professor of Computer Science at the University of Wolverhampton. He has been working with the design and development of high-technology equipment for 35 years and two of his products have won innovation awards. Bob is also a camera nut and a keen amateur photographer

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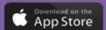


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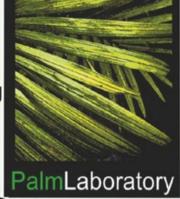
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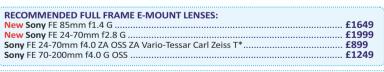
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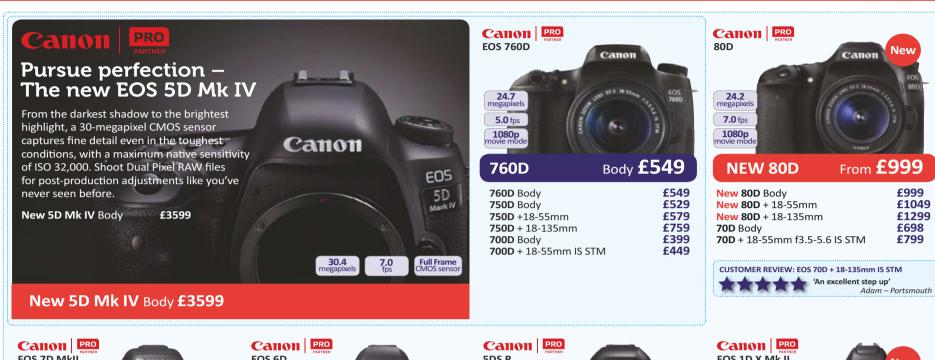
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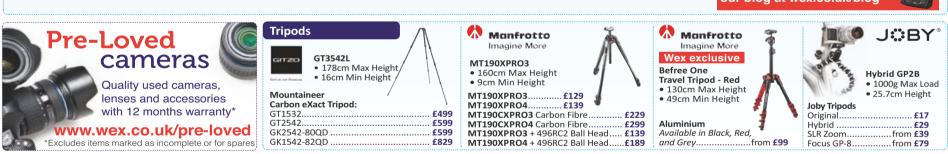
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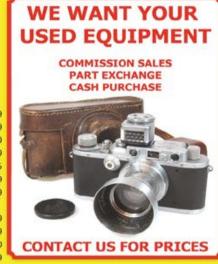
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Leica M7 black, US flag	Leica M8.2 black, just serviced by Lei	ca	£1,195	Leica 90mm/2.8 ELMARIT-M from	£899	Nikon SB-900 flash, with case, colour filters	£185
Leica M7 black body, 0.58	LEICA M BODIES - FILM			Leica 90mm/2.5 SUMMARIT-M	£799	Nikkor 12-24mm/4 AF-S G ED DX	£249
Leica M6 TTL silver, boxed, 0.72 £1,299 Reid III + 50mm/2 Taylor-Hobson, case, cap Leica M6 TTL black, boxed, 0.72 £1,199 Leica IIIc inc 5cm/2 collapsible £599 Sinar F kit, 240mm/5.6 APO, accessories, case £60 Leica M2 body from £599 Leica II Inc 5cm/3.5 ELMAR (1937) £499 Hasselblad 500ELM 'moon' special edition £1,2: Leica 18mm/3.8 SUPER-ELMAR-M, boxed £1,699 Leica III ainc 5cm/3.5 elmar (1939) £599 Hasselblad 202FA, 150mm/2.8, prism, £12 £1,99 Leica 18mm/3.8 SUPER-ELMAR-M, boxed £1,699 Leica III ainc 5cm/3.5 elmar (1939) £399 Hasselblad 500CLM 'moon' special edition £1,2: Leica 18mm/3.8 SUPER-ELMAR-M, boxed £1,699 Leica III ainc 5cm/3.5 elmar (1939) £399 Hasselblad 500CLM kit, 80mm/2.8, exc++ £99 Leica 21mm/1.4 SUMMILUX-M ASPH, boxed £1,299 Leica III ainc 5cm/3.5 collapsible £399 Hasselblad 500C/M kit, 80mm/2.8, exc++ £99 Leica 21mm/2.8 ELMARIT-M ASPH from £1,299 Leica II body, silver £399 Canon 7D with 17-55mm/2.8 EF-S IS £79 Leica 21mm/2.8 ELMARIT-M + finder £1,299 Leica 18 body, silver £399 Canon 50mm/1.2 EF L £79 Leica 24mm/2.8 ELMARIT-M ASPH from £999 Leica R9 black, near mint £599 Silmar R8 mm/1.4 EF L £2 Leica 35mm/1.4 SUMMILUX-M ASPH +hood £1,399 Leica R9 black, near mint £599 FullFILM 14mm/2.8 boxed £3 Leica 35mm/1.4 SUMMILUX-M ASPH +hood £2,499 Leica 87 black body £349 FullFILM 14mm/2.8 boxed £3 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £4,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Full X100 silver from £2 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £4,250 Leica 35mm/3.4 APO-TELYT-R + case, filter £2,249 Leica 8x32 TINOVID BCA + case £4 Leica 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BCA + case £4 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case	Leica M7 black, US flag		£1,399	Leica 135mm/4 ELMAR SILVER	£299	Nikon 28-300mm AF-S G VR	£499
Leica M6 TTL black, boxed, 0.72 Leica M2 body from E599 Leica II Inc 5cm/3.5 ELMAR (1937) E16A M LENSES Leica Standard Inc 5cm/3.5 elmar (1939) Leica Standard Inc 5cm/3.5 elmar (1939) E16A M LENSES Leica 18mm/3.8 SUPER-ELMAR-M, boxed E16A M2 boxed E16A M2 boxed E16A M2 boxed E16A M3.8 SUPER-ELMAR-M, boxed E16A M4 Basselblad 500ELM imono' special edition E17A M4 Basselblad 150mm/4 Sipm, 250 Masselblad 150mm/4 S	Leica M7 black body, 0.58		£1,299	LEICA SCREW MOUNT		MISCELLANEOUS	
Leica M2 body from £599 Leica II inc 5cm/3.5 ELMAR (1937) £499 Hasselblad 500ELM 'moon' special edition £1,2: Leica M LENSES Leica Standard inc 5cm/3.5 elmar (1939) £599 Hasselblad 202FA, 150mm/2.8, prism, E12 £1,9: Leica 21mm/1.4 SUMMILUX-M ASPH, boxed £3,995 Leica III red dial inc 5cm/3.5 collapsible £399 Hasselblad 500C/M kit, 80mm/2.8, exc++ £9: Leica 21mm/2.8 ELMARIT-M ASPH from £1,299 Leica lc body, silver £399 Canon 7D with 17-55mm/2.8 EF-5 IS £7: Leica 21mm/2.8 ELMARIT-M 4Finder £1,299 Leitz 2.8cm/6.3 HEKTOR chrome £549 Canon 50mm/1.2 EF L £7: Leica 24mm/2.8 ELMARIT-M ASPH from £999 Leitz 9cm/4 'FAT' ELMAR black/nickel £449 Canon 50mm/1.4 EF £2: Leica 24mm/2.8 ELMARIT-M ASPH from £999 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £7: Leica 35mm/1.4 SUMMILUX-M ASPH +hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £3: Leica 50mm/0.95 NOCTILUX-M ASPH +hood £4,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £2: Leica 50mm/1.4 ASPH, 6-bit, black, boxed £4,250 Leica 180mm/3.4 APO-TELYT-R + case, filter £2.249 Leica 8.12 X2 VINOVID BA + case £4: Leica 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.2 VARIO-ELMAR-R £2.395 Leica 10x25 TRINOVID BCA + case £1:	Leica M6 TTL silver, boxed, 0.72		£1,299	Reid III + 50mm/2 Taylor-Hobson, case, cap	£1,750	Sinar P kit, 150mm/5.6 APO, accessories, case	£999
Leica Standard inc 5cm/3.5 elmar (1939) £599 Hasselblad 202FA, 150mm/2.8, prism, E12 £1,95 Leica 18mm/3.8 SUPER-ELMAR-M, boxed £1,699 Leica Illa inc 5cm/3.5 £349 Hasselblad 500C/M kit, 80mm/2.8, exc++ £95 Leica 21mm/1.4 SUMMILUX-M ASPH, boxed £3,995 Leica Illf red dial inc 5cm/3.5 collapsible £399 Hasselblad 150mm/4 Cfi + filter+hood £75 Leica 21mm/2.8 ELMARIT-M ASPH from £1,299 Leica Ic body, silver £399 Canon 7D with 17-55mm/2.8 EF-S IS £75 Leica 21mm/2.8 BIOGON ZM + hood £599 Leitz 2.8cm/6.3 HEKTOR chrome £549 Canon 50mm/1.2 EF L £75 Leica 24mm/2.8 ELMARIT-M ASPH from £999 Leica 24mm/2.8 ELMARIT-M ASPH from £1,899 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £75 Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £335 Leica 35mm/1.4 SUMMILUX-M ASPH +hood £2,499 Leica R9 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £75 Leica 50mm/1.9 NOCTILUX-M, boxed £4,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R + case, filter £2,249 Leica 8x32 TINOVID BA + case £41 Leica 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £11 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case	Leica M6 TTL black, boxed, 0.72		£1,199	Leica IIIc inc 5cm/2 collapsible	£599	Sinar F kit, 240mm/5.6 APO, accessories, case	£699
Leica 18mm/3.8 SUPER-ELMAR-M, boxed £1,699 Leica Illa inc 5cm/3.5 £349 Hasselblad 500C/M kit, 80mm/2.8, exc++ £98 Leica 21mm/1.4 SUMMILUX-M ASPH, boxed £3,995 Leica Illf red dial inc 5cm/3.5 collapsible £399 Hasselblad 150mm/4 Cfi + filter+hood £78 Leica 21mm/2.8 ELMARIT-M ASPH from £1,299 Leica Ic body, silver £399 Canon 7D with 17-55mm/2.8 EF-S IS £78 Leica 21mm/2.8 BIOGON ZM + hood £599 Leitz 2.8cm/6.3 HEKTOR chrome £549 Canon 50mm/1.2 EF L £78 Leica 24mm/2.8 ELMARIT-M ASPH from £99 Leica R9 black, near mint £1,299 Leica 28mm/2 SUMMICRON-M ASPH from £1,899 Leica R9 black, near mint £1,299 Leica R9 black, inc motor-winder £1,299 Leica R9 black, inc motor-winder £1,299 Leica 35mm/1.4 SUMMILUX-M ASPH +hood £2,499 Leica R9 black, inc motor-winder £1,299 Leica 35mm/1.4 SUMMILUX-M ASPH, boxed £1,290 Leica 35mm/1.4 SUMMILUX-M, boxed £4,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint Leica 50mm/1.0 STOCTILUX-M ASPH, boxed £4,250 Leica 50mm/2 SUMMICRON-R £2,99 Leica T kit, 23mm, 18-56mm, Visoflex £1,790 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,299 Leica 8.32 TINOVID BA + case £41 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case	Leica M2 body	from	£599	Leica II inc 5cm/3.5 ELMAR (1937)	£499	Hasselblad 500ELM 'moon' special edition	£1,250
Leica 21mm/1.4 SUMMILUX-M ASPH, boxed £3,995 Leica IIIf red dial inc 5cm/3.5 collapsible £399 Hasselblad 150mm/4 Cfi + filter+hood £75 Leica 21mm/2.8 ELMARIT-M ASPH from £1,299 Leica 1c body, silver £399 Canon 7D with 17-55mm/2.8 EF-S IS £75 Leica 21mm/2.8 ELMARIT-M + finder £1,299 Leitz 2.8cm/6.3 HEKTOR chrome £549 Canon 50mm/1.2 EF L £75 Leica 24mm/2.8 BIOGON ZM + hood £599 Leitz 9cm/4 'FAT' ELMAR black/nickel £449 Canon 50mm/1.4 EF £25 Leica 24mm/2.8 ELMARIT-M ASPH from £1,899 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £76 Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £33 Leica 35mm/1.4 SUMMILUX-M ASPH +hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £77 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica X-VARIO black + half case £95 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8x32 TINOVID BA + case £95 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case	LEICA M LENSES			Leica Standard inc 5cm/3.5 elmar (1939)	£599	Hasselblad 202FA, 150mm/2.8, prism, E12	£1,999
Leica 21mm/2.8 ELMARIT-M ASPH from £1,299 Leica Ic body, silver £399 Canon 7D with 17-55mm/2.8 EF-S IS £75 Leica 21mm/2.8 ELMARIT-M + finder £1,299 Leitz 2.8cm/6.3 HEKTOR chrome £549 Canon 50mm/1.2 EF L £75 Leica 24mm/2.8 BIOGON ZM + hood £599 Leitz 9cm/4 'FAT' ELMAR black/nickel £449 Canon 50mm/1.4 EF £25 Leica 24mm/2.8 ELMARIT-M ASPH from £1,899 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £74 Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £33 Leica 35mm/1.4 SUMMILUX-M ASPH +hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £75 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £25 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica X-VARIO black + half case £95 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8x32 TINOVID BA + case £95 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £15	Leica 18mm/3.8 SUPER-ELMAR-M, b	oxed	£1,699	Leica IIIa inc 5cm/3.5	£349	Hasselblad 500C/M kit, 80mm/2.8, exc++	£999
Leica 21mm/2.8 ELMARIT-M + finder £1,29 Leitz 2.8cm/6.3 HEKTOR chrome £549 Canon 50mm/1.2 EF L £75 Zeiss 21mm/2.8 BIOGON ZM + hood £599 Leitz 9cm/4 'FAT' ELMAR black/nickel £449 Canon 50mm/1.4 EF £25 Leica 24mm/2.8 ELMARIT-M ASPH from £999 LEICA R Sigma 180mm/3.5 MACRO for Canon EOS £25 Leica 28mm/2 SUMMICRON-M ASPH from £1,899 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £76 Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £33 Leica 35mm/1.4 SUMMILUX-M ASPH +hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £79 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £21 Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £99 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,79 Leica 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BA + case £99 Leica 10x25 TRINOVID BCA + case £19	Leica 21mm/1.4 SUMMILUX-M ASPH	l, boxed	£3,995	Leica IIIf red dial inc 5cm/3.5 collapsible	£399	Hasselblad 150mm/4 Cfi + filter+hood	£799
Zeiss 21mm/2.8 BIOGON ZM + hood £599 Leitz 9cm/4 'FAT' ELMAR black/nickel £449 Canon 50mm/1.4 EF £2. Leica 24mm/2.8 ELMARIT-M ASPH from £999 LEICA R Sigma 180mm/3.5 MACRO for Canon EOS £25 Leica 28mm/2 SUMMICRON-M ASPH from £1,899 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £74 Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £33 Leica 35mm/1.4 SUMMILUX-M ASPH + hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £75 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £25 Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £95 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,75 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8x32 TINOVID BA + case £95 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £15 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £15 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case	Leica 21mm/2.8 ELMARIT-M ASPH	from	£1,299	Leica Ic body, silver	£399	Canon 7D with 17-55mm/2.8 EF-S IS	£799
Leica 24mm/2.8 ELMARIT-M ASPH from £999 LEICA R Sigma 180mm/3.5 MACRO for Canon EOS £25 Leica 28mm/2 SUMMICRON-M ASPH from £1,899 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £7 Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £3 Leica 35mm/1.4 SUMMILUX-M ASPH + hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £7 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £2 Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £9 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,79 Leica 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BA + case £4 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Le	Leica 21mm/2.8 ELMARIT-M + finder		£1,299	Leitz 2.8cm/6.3 HEKTOR chrome	£549	Canon 50mm/1.2 EF L	£799
Leica 28mm/2 SUMMICRON-M ASPH from £1,899 Leica R9 black, near mint £599 Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed £7- Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £3 Leica 35mm/1.4 SUMMILUX-M ASPH + hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £7 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £2 Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £9 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,79 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8-12x42 DUOVID + case £9 Zeiss 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BA + case £4 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R	Zeiss 21mm/2.8 BIOGON ZM + hood		£599	Leitz 9cm/4 'FAT' ELMAR black/nickel	£449	Canon 50mm/1.4 EF	£225
Leica 35mm/1.4 SUMMILUX-M + hood £1,399 Leica R9 black, inc motor-winder £599 FUJIFILM 14mm/2.8 boxed £31 Ecica 35mm/1.4 SUMMILUX-M ASPH + hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £75 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £25 Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £95 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,795 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8-12x42 DUOVID + case £95 Leica 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BA + case £41 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £150 Leica 10x25 TRINOVID	Leica 24mm/2.8 ELMARIT-M ASPH	from	£999	LEICA R		Sigma 180mm/3.5 MACRO for Canon EOS	£299
Leica 35mm/1.4 SUMMILUX-M ASPH +hood £2,499 Leica R7 black body £349 Fujifilm XT-1 with 35mm/1.4 XF lens £75 Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £25 Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £95 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,75 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8-12x42 DUOVID + case £95 Zeiss 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BA + case £44 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £15	Leica 28mm/2 SUMMICRON-M ASPH	from.	£1,899	Leica R9 black, near mint	£599	Zeiss/Sony 16-35mm/4 FE ZA OSS, boxed	£749
Leica 50mm/0.95 NOCTILUX-M ASPH, boxed £5,250 Leica 35mm/1.4 SUMMILUX-R, ROM, mint £2,699 Fuji X100 silver from £2 Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £9 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,79 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8-12x42 DUOVID + case £9 Zeiss 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BA + case £4 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £1	Leica 35mm/1.4 SUMMILUX-M + hoc	od	£1,399	Leica R9 black, inc motor-winder	£599	FUJIFILM 14mm/2.8 boxed	£399
Leica 50mm/1 NOCTILUX-M, boxed £4,250 Leica 50mm/2 SUMMICRON-R £299 Leica X-VARIO black + half case £97 Leica 50mm/1.4 ASPH, 6-bit, black, boxed £1,995 Leica 180mm/3.4 APO-TELYT-R £599 Leica T kit, 23mm, 18-56mm, Visoflex £1,79 Leica 50mm/1.4 SUMMILUX-M, + hood £1,299 Leica 280mm/2.8 APO-TELYT-R + case, filter £2,249 Leica 8-12x42 DUOVID + case £99 Zeiss 50mm/1.5 C SONNAR ZM silver £599 Leica 350mm/4.8 TELYT-R + CASE £799 Leica 8x32 TINOVID BA + case £4 Leica 50mm/2.8 ELMAR-M collapsible+hood £549 Leica 105-280mm/4.2 VARIO-ELMAR-R £2,395 Leica 10x25 TRINOVID BCA + case £1	Leica 35mm/1.4 SUMMILUX-M ASPH	+hood	£2,499	Leica R7 black body	£349	Fujifilm XT-1 with 35mm/1.4 XF lens	£799
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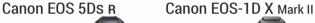
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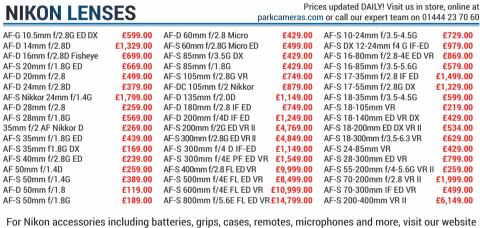
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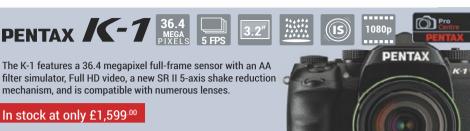
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75mm F1.8 ED Black M.Zuiko	
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25mm F0.95 Nokton Voigtlander	
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100mm F4 E Macro	E+ £149
150mm F3.5 E	. As Seen / E++ £29 - £109
150mm F3.5 PE	E++ £119
180mm F4.5 PE	E+ £159
200mm F4.5 E	E+ / E++ £69 - £129
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24mm F3.5 L TSE	E+ / Mint £699 - £749
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40mm F2.8 STM	E++ / Mint- £99
50-135mm F2.8 DX ATX Tokina	E++ £299
500mm F4.5 L USM	E+ £2,189
50mm F1.0 L USM	
50mm F1.2 L USM	E + / Mint- £765 - £700
50mm F1.2 L 03W	. L++ / WIIII- £/03 - £/33
50mm F1.4 USM	E++ £189
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50mm F1.8 EF Mk1	E++ £99 - £115
50mm F2.5 EF Macro	F++ £149
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55-250mm F4-5.6 EFS IS II	
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45mm F2.8 Distagon	E+ / E++ £369 - £489
120mm F4 Apo Macro	E+ / E++ £549 - £899
140mm F2.8 Sonnar	E+ / Mint- £349 - £599
210mm F4 Sonnar	E+ / Mint- £349 - £499
350mm F4 Tele Apo Tessar	E++ £3,999
1.4x Mutar Converter	Mint- £499

1.4x William Conventer
Contax SLR Lenses
25mm F2.8 MME+ £299
28-70mm F3.5-4.5 MME++ £249
28-80mm F3.5-5.6 AF Unused / New £349 - £399
28mm F2 AE E++ £449
35-70mm F3.4 MME+ £249
35mm F2.8 MME+ £139
45mm F2.8 AEE+ £149
45mm F2.8 MME++ £199
50mm F1.4 AF E++ £449
50mm F1.7 AEE+ / E++ £75 - £99
50mm F1.7 MM E++ £129
60mm F2.8 AE Macro E++ £279
70-200mm F4-5.6 AF E++ £449
70-300mm F4-5.6 AFE++ / Unused £399 - £649
80-200mm F4 MM E++ £179
100mm F2 AE
100mm F3.5 AEE+ £179
100mm F4 S Planar E++ £649
135mm F2 (60 Year Edition)Unused £2,399
135mm F2.8 MME+ £169
180mm F2.8 AE
180mm F2.8 MME++ £349
200mm F3.5 AEE+ / E++ £129 - £149
20011111 F3.3 AE E+/ E++ £129 - £149

E++ / Unused £179 - £449

..... E++ £189

.E+ £249

Digital SLR Cameras

200mm F3.5 AE. 200mm F4 AE... 200mm F4 MM.

300mm F4 AE.

Canon EOS 1000D Body Only	E++ £119
EOS 100D Body Only	
EOS 10D + BG-ED3 Grip	
EOS 1D Mkll Body Only	As Seen £199
EOS 1D MKIIN Body Only	
EOS 1D MKIV Body OnlyE+	/ Mint- £1,345 - £1,499
EOS 1DX Body Only	E+ £2,749
EOS 300D Body Only	As Seen £45 - £49
EOS 30D Body Only	
EOS 400D Body Only	
EOS 40D + BG-E2 Grip	E++ £149
EOS 450D Body Only	E+ £79
EOS 500D Body Only	
EOS 50D + BG-E2 Grip	E+ £245
EOS 5D MkII Body Only	E++ £849
EOS 5D MKIII Body Only	Mint- £1,599
EOS 60D Body Only	E+ £299
EOS 70D Body Only	E+ £549
EOS 750D Body Only	Mint £359
EOS 7D Body Only	E++ / Mint- £399
EOS M3 + 18-55mm	Mint- £299
EOS M3 + 18-55mm + DC1 Finde	erMint- £379

Nikon D100 Body Only	E+ £79
D200 + MB-D200 Grip	E++ £189
D200 Body Only	. As Seen / E++ £149 - £179
D3 Body Only	As Seen £399
D300 Body Only	E+ £199
D3100 Body Only	E++ £129
D3S Body Only	E+ £1,749
D3X Body Only	E+ £1,189
D4 Body Only	E++ £2,249
D50 Body Only	As Seen £49
D5000 Body Only	E++ £129

D5300 Body Only	Mint- £269 - £289
D5500 + 18-140mm	Mint- £559
D70 Body Only	As Seen / E+ £49 - £79
D800 Body Only	E+ / Mint- £989 - £1,179
D800E Body Only	E++ £1,179
D90 Body Only	E++ £179

Hasselblad H Lenses

28mm F4 HCD	E++ / Mint- £2,149 - £2,450
35-90mm F4-5.6 HC	Mint- £3,750
35mm F3.5 HC	Exc £999
50-110mm F3.5-4.5 HC	Exc / E+ £999 - £1,495
50mm F3.5 HC	E+ / Mint £1,199 - £1,399
120mm F4 HC Macro	Exc / E++ £999 - £1,549
150 Filter Hood + 150x170 N	D8 Grad (Hasselblad H) Mint- £199
150mm F3.2 HC	E+ / E++ £989 - £1,189
210mm F4 HC	E+ £1,249
1.5x HTS Tilt/Shift Converte	rMint- £2,495
1.7x H Converter	E++ £549

Mamiya RB67 Lenses

50mm F4.5 C	E+ £149
140mm F4.5 C Macro	As Seen £79
150mm F4 C Soft Focus	E+ £129
180mm F4.5 C	As Seen £75 - £99
180mm F4.5 KL-A	E++ £149 - £169
250mm F4.5	As Seen £99
250mm F4.5 C	As Seen £89
2x Converter Vivitar	E+ £35
2x MC6 Converter Teleplus	E++ £35

Mamiya RZ67 Lenses

5UMM F4.5	EXC £35U
65mm F4 L-A	E+ / E++ £249 - £299
75mm F4.5 Shift W	E+ £399
100-200mm F5.2 W	E+ / E++ £219 - £399
140mm F4.5 Macro W	As Seen £79
180mm F4.5 L SB	E++ £249
180mm F4.5 W	As Seen / E++ £89 - £129
180mm F4.5 WN	As Seen / E++ £89 - £149
250mm F4.5	Exc / E+ £129
1.4x Converter	Exc / E++ £119 - £199

Minolta / Sony AF Lenses Sony 11-18mm F4.5-5.6 DT.....

Sony Fit Sigma Lenses

28-105mm F4-5.6 Series 1 Vivitar

16-12311111 F3.3-3.0 DG	⊏+	ZI
18-200mm F3.5-6.3 DC	E+	£7
18-35mm F3.5-4.5	As Seen	£4













Prices correct when compiled. E&OE.

T: 01463 783850

E: info@ffordes.com



COMMISSION SALE PART EXCHANGE BUY FOR CASH 35MM, MEDIUM FORMAT, LARGE FORMAT, DIGITAL

20mm F1.8 EX DGE++ £260
28-200mm F4-5.6E+ £39
28mm F1.8 EX DG E/E++ £139-£199
50mm F2.8 DG MacroE++ £109
70-300mm F4-5.6 DGE++ £49
70-300mm F4-5.6 Apo DG MacroE+ £49
70-300mm F4-5.6 DG MacroE++ £59
8-16mm F4.5-5.6 DC HSME++ £299
85mm F1.4 EX DG HSME++ £489
135-400mm F4.5-5.6 Apo E+ £179
150-500mm F5-6.3 APO DG OS HSME++ £429
Nikon AF Fit Lenses
10-17mm F3.5-4.5 DX Fish Eye TokinaE+ £319
11-16mm F2.8 ATX Pro DX TokinaE++ £279
12-24mm F4 ATX PRO SD Tokina E++ £199 - £329
12-24mm F4 G AFS DX EDE++ £389
14-24mm F2.8 G AFS EDE+ / E++ £839 - £929
16-85mm F2 5-5 6 C ED VP AES DVE + / E + + \$220 - \$220

70-300mm F4-5.6 Apo DG Macro	
70-300mm F4-5.6 DG Macro	
8-16mm F4.5-5.6 DC HSM	E++ £299
85mm F1.4 EX DG HSM	
135-400mm F4.5-5.6 Apo	
150-500mm F5-6.3 APO DG OS HSM	E++ £429
Nikon AF Fit Lenses	
10-17mm F3.5-4.5 DX Fish Eye Tokina	F+ £319
11-16mm F2.8 ATX Pro DX Tokina	
12-24mm F4 ATX PRO SD Tokina E++	£100 - £270
12-24mm F4 G AFS DX ED	ETT 6380
14-24mm F2.8 G AFS EDE+ / E++	£830 - £020
16-85mm F3.5-5.6 G ED VR AFS DXE+ / E++	£220 - £320
17-35mm F2.8 ED AFS	F_ £5/0
17-35mm F4 AT-X Pro FX Tokina	
17-55mm F2.8 G AFS DX IFEDE++	£340 - £300
18-140mm F3.5-5.6 AF-S G ED VR DX.Mint-	£343 - £333
18-300mm F3.5-5.6 AFS DX VR	Mint £200
18-35mm F3.5-4.5 AFD	
18-55mm F3.5-5,6 G AFS VRE+-	
18mm F2.8 AFD	
18mm F3.5 ZF.2 Zeiss	
20-35mm F2.8 AFDE+	
20-35mm F2.8 ATX Pro Tokina	F ₊ + £225
200mm F2 G AFS VR	
20mm F2.8 AFDE+ / E++	£269 - £340
20mm F3.5 Color Skopar SLII Voigtlander	Mint- £270
21mm F2.8 ZF Zeiss	F £279
24-120mm F4 AFS G ED VR	Mint- £129
24-70mm F2.8 G AFS ED	F_ £7/10
24-7011111 F2.6 G AF3 ED	FT 630
24-85mm F3.5-4.5 G ED VR	F++ £270
24mm F1.4 AE ED AS UMC Samyang	Mint- £260
24mm F1.4 G AFS EDE+ / E++	£270 - £209
25mm F2 ZF.2 Zeiss	Mint £800
25mm F2.8 ZF ZeissE++ / Mint-	WIIII- £099
25mm F2.8 ZF.2 Zeiss	
28-100mm F3.5-5.6 AFG	E++ £499
28-105mm F3.5-4.5 AFDE+	
28-80mm F3.3-5.6 AFG	
00mm F0 0 AF	
28mm F2.8 AF	
28mm F2.8 AFDE+ / E++	£159 - £169
28mm F2.8 AFDE+ / E++ 35-70mm F2.8 AFDE+ / E++	£159 - £169 £159 - £399
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28mm F2.8 AFD	£159 - £169 £159 - £399
28mm F2.8 AFD	£159 - £169 £159 - £399

135mm F2 Apo ZF.2 Zeiss
200-400mm F4 G AFS VR II Mint- £3,499
200-400mm F4 G VR AFS IFED E+ / E++ £1,899 - £2,499
200-400mm F5.6 AF LD TamronE++ £169
300mm F2.8 G AFS ED VRE+ / E++ £2,299 - £2,449
300mm F2.8 G AFS ED VR II E+ / Mint- £2,799 - £3,189
300mm F2.8 IF ED AFSE++ £1,849
300mm F2.8 IFED AF-IE++ £1,599
300mm F2.8 IFED AFS IIE+ £1,789
300mm F4 AFS IFEDE+ / E++ £589 - £599
500mm F4 AFS IFEDE+ £2,599
500mm F4 G AFS VR IF ED E+ £4,489
500mm F4 P IFED AIS + TC16A Converter E+ £1,049

Nikon AF Teleconverters

TC-14E Converter	E++ £149
TC-20 EII AFS Converter	E++ £179
TC-20 EIII AFS Converter	Mint- £249 - £269
TC-20E Converter	E++ £119
TC-20EII Converter	E+ / E++ £159 - £179
2x Converter Pro300 - Kenko	E++ £79
2x MC7 Converter Teleplus	E++ £45
Extension Tube Set 12/20/36 DG Ke	nko E++ / Mint £69 - £79

Mikoli Ai Tit Olgilla Eclises
18-250mm F3.5-5.6 DC OS Mint- £179
18-35mm F1.8 DC HSM AE++ £399
18-50mm F2.8 EX DC E+ £115
18-50mm F2.8 EX DC MacroE++ £129
24-70mm F2.8 EX DGE++ £189
50-150mm F2.8 Apo HSM II E+ £329
50-500mm F4-6.3 Apo DG HSME+ / E++ £399 - £499
75-300mm F4-5.6 ApoE++ £79
85mm F1.4 EX DG HSM E+ £419
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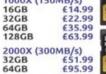




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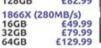
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49mm	£4.99	49mm	£10.99	49mm	£11.99
52mm	£4.99	52mm	£10.99	52mm	£11.99
55mm	£5.99	55mm	£11.99		£14.99
58mm	£6.99	58mm	£12.99	58mm	
62mm	£7.99			62mm	£16.99
67mm	£8.99	62mm	£14.99	67mm	£18.99
72mm	£9.99	67mm	£15.99	72mm	£21.99
77mm	£11.99	72mm	£17.99	77mm	£25.99
82mm	£14.99	77mm	£19.99	82mm	£29.99
86mm	£19.99	82mm	£22.99	HOYA Pro-11	o elim
voor sli- s		Marumi DHG Slim		Frame Multi-coated	
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37mm	£12.99		£13.99		
40.5mm	£12.99			58mm	£28.99
46mm	£12.99	58mm	£15.99	62mm	£31.99
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£13.99	ND4 Soft Graduated	£17.99
£13.99	ND4 Hard Graduated	£17.99
£12.99	ND8 Solid	£18.99
£13.99	ND8 Soft Graduated	£19.99
£13.99	ND8 Hard Graduated	£19.99
£14.99	Light Blue Graduated	£17.99
£15.99	Dark Blue Graduated	£17.99
£15.99	Light Tobacco Graduated	£17.99
£12.99	Dark Tobacco Graduated	£17.99
£12.99	Light Sunset Graduated	£18.99
£12.99	Dark Sunset Graduated	£18.99
	A-Type: 67mm wide filt	ers
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	Adapter Rings 37-62mm	
	ND2 Solid	£10.99
	ND2 Graduated	£11.99
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	ND4 Graduated	£11.99
your	ND8 Solid	£11.99
	ND8 Graduated	£12.99
	£5.99 £6.99 £4.99 £4.99 £12.99 £13.99 £13.99 £13.99 £13.99 £15.99 £15.99 £12.99 £12.99 £14.99 £14.99 £14.99 £14.99 £14.99 £14.99 £17.99 £14.99 £17.99 £17.99 £17.99 £17.99 £17.99 £17.99 £17.99	E5.99 Pro Holder 66.99 Adapter Rings 52-95mm 69.99 NDZ Solid 64.99 NDZ Solid 64.99 ND2 Solid 612.99 ND4 Solid 613.99 ND4 Solid 613.99 ND8 Solid 613.99 ND8 Solid 613.99 ND8 Solid 613.99 Light Blue Graduated 613.99 Light Blue Graduated 614.99 Light Blue Graduated 615.99 Dark Blue Graduated 612.99 Light Tobacco Graduated 612.99 Light Tobacco Graduated 612.99 Light Sunset Graduated 613.90 Light Tobacco Graduated 614.90 Light Tobacco Graduated 615.90 Light Tobacco Graduated 616.90 Light Tobacco Graduated 617.90 Light Tobacco Graduated 618.90 Light Tobacco Graduated 619

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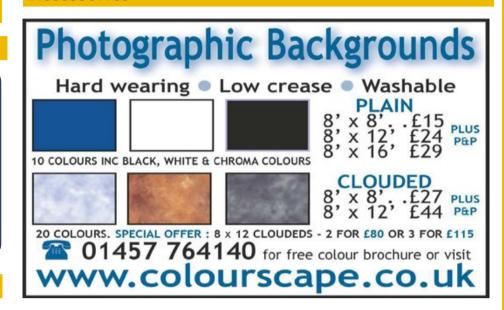
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he Masjid-i of Fahraj is the oldest mosque in Iran, built in about 58AH, or 632AD. The thick pillars are built of adobe, sun-dried brick, faced with plaster.

Breathe in: you can almost smell the cool mustiness of the walls. A great photograph can engage more senses than just vision.

I saw this picture at Arles Photography Festival in 2016, as a part of what Palmisano calls *Work in Progress: Iran*. It pretty much stopped me in my tracks, partly for its technical exquisiteness, partly for its universality. Yes, it's a mosque, but it stands for countless ancient buildings, of any religion or none.

The more you look at it, the more you see. This is the Jami or Jame Mosque, the Friday Mosque, the name generally given to the main or central mosque in a town or city. It's still in use, almost 1,400 years

after it was built. There have been small changes. Rickety electric fans hang from the ceiling, energy-saving light bulbs are installed in the arches and photographs hang on the wall. But none of this affects the immediate impression of antiquity. The patched and flaking plaster and the simple, massive architecture are far more immediate. They are what we see first.

Calm and coolness

To a very large extent, this is down to the unifying power of black & white. Google other pictures of the same mosque, and some of the details are colourful to the point of garish. Because monochrome can portray a far wider brightness range than colour, too, we can see into the shadows far better. This adds to the impression of calm and coolness: in conventional colour we would have glaring brightness

contrasted with stygian blackness, although it would be very interesting to see an HDR colour picture of the same subject. It also reminds us that overly bright whites, in the wrong places, can destroy a picture. There's enough texture in even the brightest parts of the arches that they're not blown. There's a place for contrast, and this isn't it.

Finally, look at the dull, dark-grey upright on the left. It provides a perfect counterweight to the darkness on the right. Without it, the picture would not so much leak out of its frame as lurch to the left. The texture is important, too. If it were flat and perfect, it would be an overly modern, jarring end-stop. As so often, a great picture is the result of a lot of details coming together – yet another illustration of the old saying that genius is an infinite capacity for taking pains.

Roger Hicks has been writing about photography since 1981 and has published more than three dozen books on the subject, many in partnership with his wife Frances Schultz (visit his new website at **www.rogerandfrances.eu**). Every week in this column Roger deconstructs a classic or contemporary photograph. **Next week he considers an image by Giada Connestari.**

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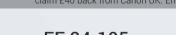
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